

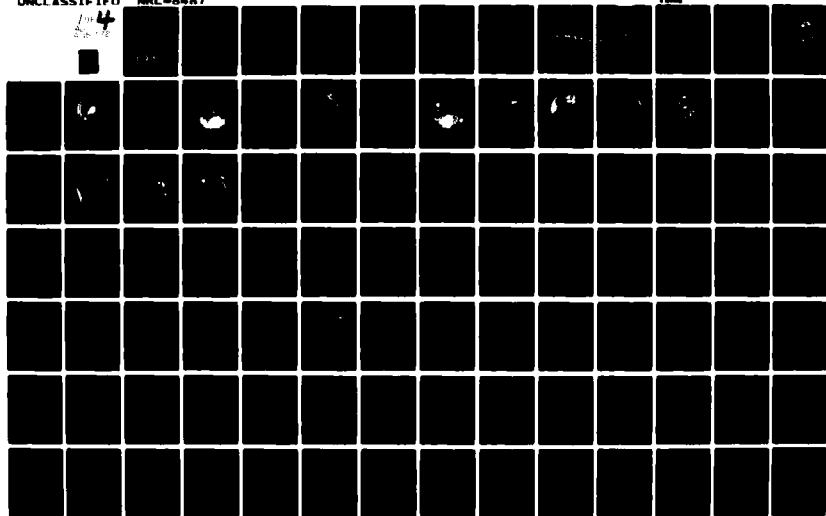
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NRL Report 8487

AD A115772

**Revised**  
**S201 Catalog of Far-Ultraviolet Objects**

THORNTON PAGE

*NASA, Johnson Space Center*

and

GEORGE R. CARRUTHERS AND HARRY M. HECKATHORN

*Space Science Division*

May 6, 1982

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#### **PREVIOUS REPORT**

Thornton Page, George R. Carruthers, and Richard Hill, "S201 Catalog of Far-Ultraviolet Objects," NRL Report 8173, Jan. 1978.

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20. ABSTRACT (Continue on reverse side if necessary and identify by block number)  A catalog of star images was compiled from images obtained by the NRL Far-Ultraviolet Camera/Spectrograph (Experiment S201), operated from 21 to 23 April 1972 on the lunar surface during the Apollo-16 mission. These images were scanned on a microdensitometer, and the output was recorded on magnetic tapes. A set of seven computer programs was written to process these recorded outputs in order to compile the catalog. The catalog is divided into 11 parts, covering ten fields in the sky (the Sagittarius field being covered by two parts), and each part is headed by a constellation name and the field center coordinates. The errors in position of the detected (Continued)		

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20. ABSTRACT (Continued)

> images are less than about 3 arc-min. Correlations are given with star numbers in the Smithsonian Astrophysical Observatory catalog, and star images detected on two or more S201 frames which do not correspond to SAO stars are listed.

The Revised Catalog differs from the first edition (NRL Report 8173, 20 January 1978) in that the brightnesses of all detected objects have been placed on an absolute scale of UV magnitudes based on instrument preflight calibrations. These magnitudes are compared with expectations based on theoretical model atmospheres and with calibrated OAO-2 observations of stars in common. The text includes discussions of the data analysis procedures and discussions of some results for nonstellar objects of special interest. The Revised S201 Catalog is also available on a single reel of seven-track magnetic tape.

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## REVISED S201 CATALOG OF FAR-ULTRAVIOLET OBJECTS

### INTRODUCTION

The Naval Research Laboratory's Far-Ultraviolet Camera/Spectrograph (Experiment S201) was operated from 21 April to 23 April 1972 on the lunar surface during the Apollo-16 mission. A primary objective of this experiment was to obtain far-ultraviolet images and spectra of stars, nebulae, and extragalactic objects against the low sky background seen from the lunar surface. The instrument, which was based on an electrographic Schmidt camera, is described in detail in Ref. 1.

The direct-imagery frames from the S201 camera covered  $20^\circ$ -diameter circular fields of view and had limiting resolution of about 2 arc-min at the camera's field center, degrading to about 4 arc-min near the edges. Exposures of 1, 3, and 10 min were taken with a LiF corrector on the electrographic Schmidt camera (designated ILi exposures, with a wavelength range from 1050 to 1600 Å) followed by exposures of 3, 10, and 30 min with a  $\text{CaF}_2$  corrector (designated ICa exposures, with a wavelength range from 1250 to 1600 Å). In some cases the sequence was cut short, with the result being that the last exposure was less than the maximum of 30 min for ICa. Figure 1 shows as a function of wavelength the overall detection efficiency of the camera in these two modes of operation, as determined from preflight calibrations of the instrument.

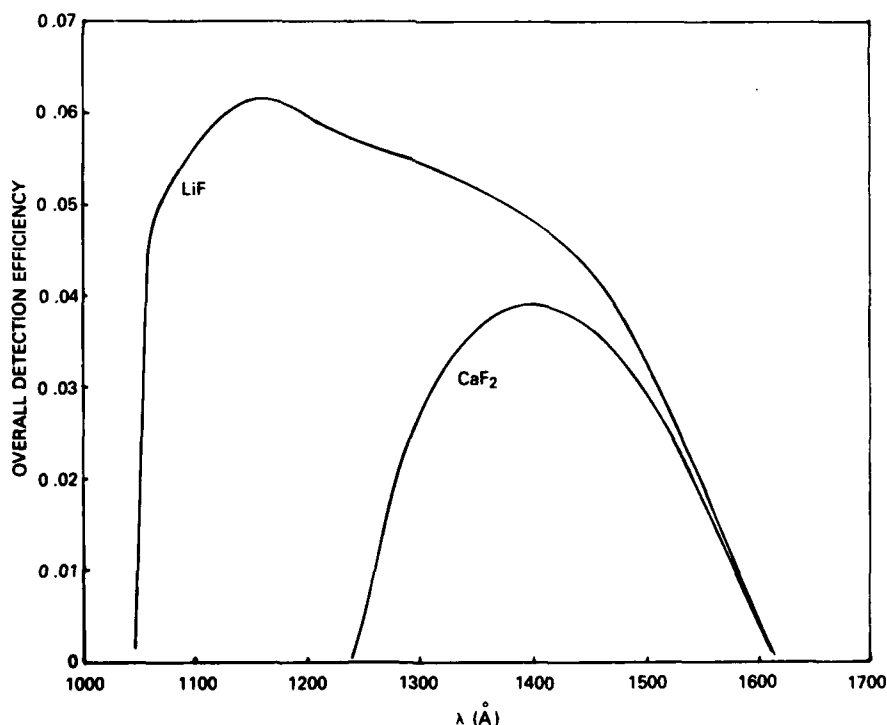


Fig. 1 — Detection efficiency as a function of the wavelength of the S201 camera in the direct imaging mode, with a LiF corrector (ILi mode) and  $\text{CaF}_2$  corrector (ICa mode)

The ILi exposures include a diffuse background due to interplanetary Lyman- $\alpha$  emission [2]. This background produced a rather high fog level on the 3-min ILi exposures and made all 10-min ILi exposures unusable due to saturation of the emulsion and/or the microdensitometer.

The camera was pointed at ten preselected target fields (Fig. 2 and Figs 3a, 4a, ..., 12a) during the 48 hours it was deployed, covering about 8% of the entire sky. These included fields of view in and out of the galactic plane, allowing a sampling of both galactic and extragalactic objects. Both the target selection and the observing time on each were largely constrained by the mission time-line, the location of the lunar landing site ( $9^{\circ}00'S$ ,  $15^{\circ}31'E$ ), and the position of the camera in the shadow of the lunar module. Negative prints of the best direct-imagery frames for each target are shown in Figs. 3b, 4b, ..., 12b. To provide the final results in this catalog, 56 direct-imagery frames were analyzed in detail (Table 1).

Preliminary results of experiment S201 were given in Ref. 3; other published papers have given details of the imagery and spectrography of the terrestrial upper atmosphere and geocorona [2,4,5], imagery of nebulosities in Cygnus [6], and imagery and spectrography of the Large Magellanic Cloud [7-9].

The first edition of this document, "S201 Catalog of Far-Ultraviolet Objects" (NRL Report 8173, 20 January 1978), gave the results of analysis of the images of stars, and other discrete objects, on the S201 direct-imagery frames. The results were presented as instrumental intensities (density-volumes) for the images, along with conversion factors for estimating the ultraviolet brightnesses of the objects based on the preflight laboratory calibrations of the instrument, and were compared with theoretical predictions for stellar model atmospheres. The present document has a number of improvements in comparison to the first edition: numerous corrections and additions have been made to the tabulated results, the format of the tables has been revised for more convenient use, and the brightnesses of all objects have been placed on an absolute scale of ultraviolet magnitudes based on instrument preflight calibrations. These magnitudes are compared with expectations based on stellar-model-atmosphere flux distributions and with magnitudes obtained from calibrated OAO-2 observations of stars in common. It is found, as a result of the comparison with the OAO-2 results, that the absolute sensitivity of the S201 instrument at the time of the observations was probably a factor of about 0.67 (0.45 stellar magnitude) less than inferred by the preflight calibrations.

## DATA ANALYSIS

All 204 S201 frames, including, for example, calibration on frames A1 to A19, stellar imagery on frames A21 to A28, and spectra on frames A48 to A56, were scanned with a PDS microdensitometer in South Pasadena, California, specially tuned by its Roller and Chivens manufacturers to cover the optical density range 0 to 5.2D, where  $D = \log(I_0/I)$ , with  $I_0/I$  being the ratio of incident and transmitted light intensities. The output was recorded on 27 seven-track magnetic tapes at 800 bits/inch and with odd parity. These data, after reformatting on new tapes, were deposited with the National Space Science Data Center, Code 601, NASA Goddard Space Flight Center, Greenbelt, MD 20771, on 16 reels numbered D23995 to D24010 inclusive.

The scan matrix was 1024 by 1024 rasters ( $1024^2$   $x, y$  points, or pixels) on all scans except calibration frames, and one raster was  $33 \mu\text{m}$ , corresponding to 1.19 arc-min in the sky. The densitometer spot was  $40 \mu\text{m}$  square. The  $x$  direction was parallel to the film edge toward the tail end of the film, which was loaded emulsion up, and the  $y$  direction was across the film at  $90^\circ$  clockwise from  $x$  (a left-hand coordinate system). Scan speeds of 17.2, 8.6, and 4.3 mm/s were used, requiring 1/2, 1, or 2 hours per frame. The speed was selected according to eye estimates of the density gradients on each frame, with the lowest speed being used for high density gradients. A speed test was undertaken for four star images on frames A191 and A192 and showed that the PDS recording lag [10] reduced the

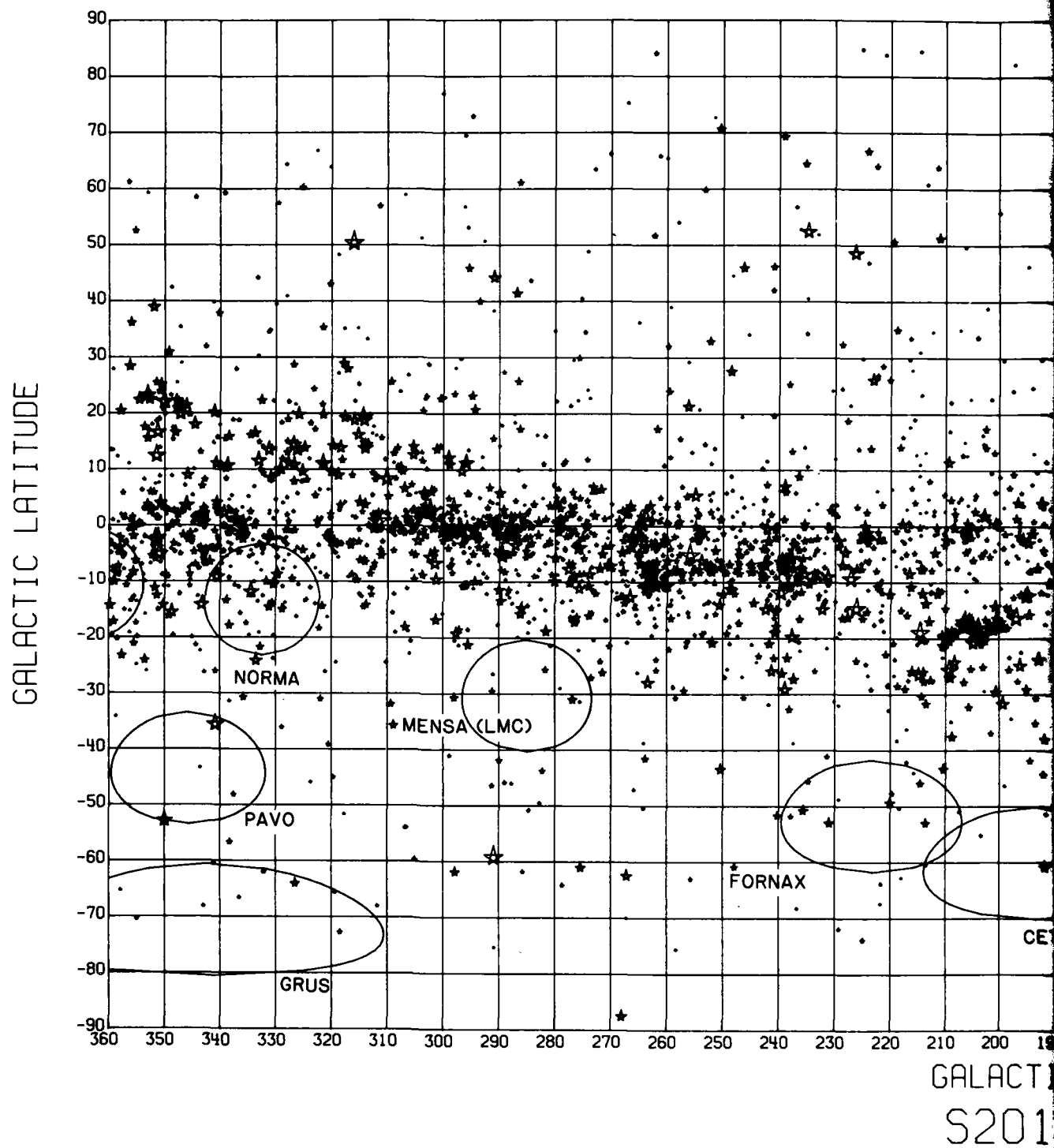


Fig. 2 - The ten p

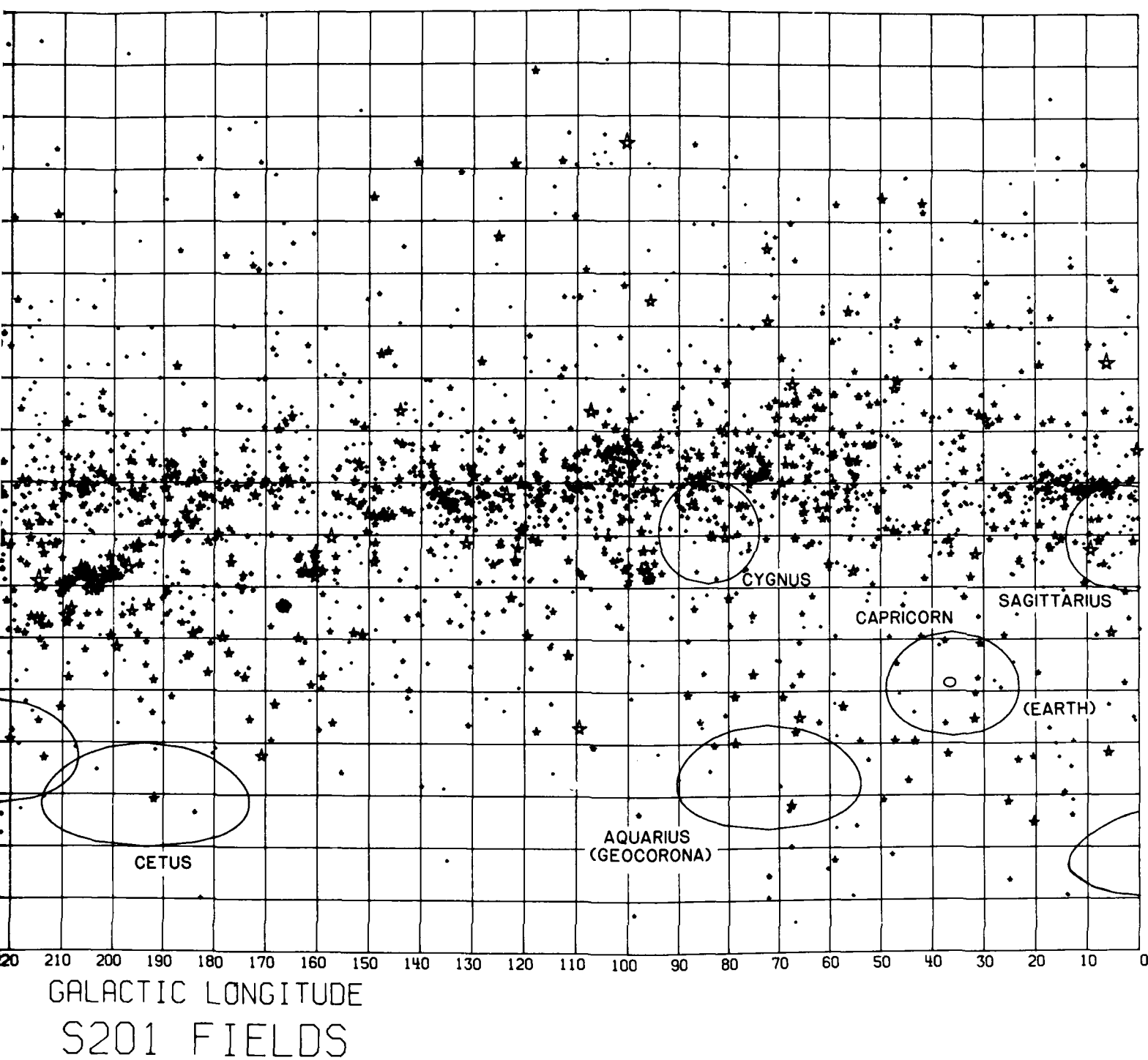


Fig. 2 — The ten preselected target fields

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2

measured peak density in a star image, although the position of the image was unaffected because of the boustrophedonic scan mode (left to right followed by right to left).

The center of each scan ( $x = 512$ ,  $y = 512$ ) was placed as nearly as possible at the frame center. The PDS density readings (in units of 0.01D) were checked by scanning standard step wedges at the beginning and end, together with the calibration frames. No zero-point drift of the PDS microdensitometer was detected in the 19 days of scanning (29 July to 16 August 1974). There were one to seven parity errors on 19 of the frame scans, and one bad tape was discovered by playback; the scans were repeated. The PDS recorded densities in units of 0.01D ( $100 \log I_0/I$ ), and these units are used throughout this catalog.

An asset of the electrographic recording technique is that the optical density of the processed emulsion is directly proportional to integrated photon flux up to densities of about 1.5D, and the relationship between density and exposure can be determined to densities over 3.5D. Preflight laboratory calibrations of the S201 instrument's spectral response and absolute sensitivity were used to determine the UV brightnesses of observed diffuse sources and point sources (star images). Observations of the hydrogen geocoronal and interplanetary Lyman- $\alpha$  emissions [2] are consistent with other measures of these emissions and hence tend to confirm (within a factor of two) the preflight calibrations.

### Data-Reduction Programs

Star images were detected, located, and identified by a series of EXEC II programs on the Univac 1108 computer at the NASA Johnson Space Center. Seven major programs were written and can be summarized as follows:

- The REFORMAT program added a header starting with the frame number and added an end-of-file mark to each PDS scan, creating a new tape compatible with the EXEC II system.
- The SMOOTH program was found necessary to reduce grain noise in the PDS output. It created a new data tape by averaging 12 surrounding pixels with each pixel in the scan, using the following weighting factors to give a smoothed density  $D(x, y)$  at each point  $x, y$ :

$$\begin{array}{ccccccc}
 & & & & 1/36 & & \\
 & & & & & & \\
 & & & 2/36 & 4/36 & 2/36 & \\
 & & & & & & \\
 1/36 & 4/36 & 8/36 & 4/36 & 1/36 & & \\
 & & & & & & \\
 & & & 2/36 & 4/36 & 2/36 & \\
 & & & & & & \\
 & & & & 1/36 & & 
 \end{array}$$

- The CONTOUR program plotted isodensity contours at selectable contour intervals over selectable regions of the scan. This was used primarily to give quantitative intensity distributions over extended far-UV objects such as the geocorona, possible clouds in the solar wind, nebulae, regions of the Large Magellanic Cloud (LMC), other galaxies, and clusters of galaxies. These contour plots also revealed defects in the scan data, such as lint and scratches, which were later removed from the list of star images. Small-region (enlarged) contour plots were used to check density-volumes derived from the STAR DETECTION program.

- The STAR DETECTION program identified each starlike image by its "edge" 20 units (0.2D) above local background, determined its "area" by the number  $N$  of pixels within the edge, added up the total density  $\sum D$ , and determined the peak density  $P$ , the  $x, y$  coordinates of the peak, and the local

(Continues on page 28.)

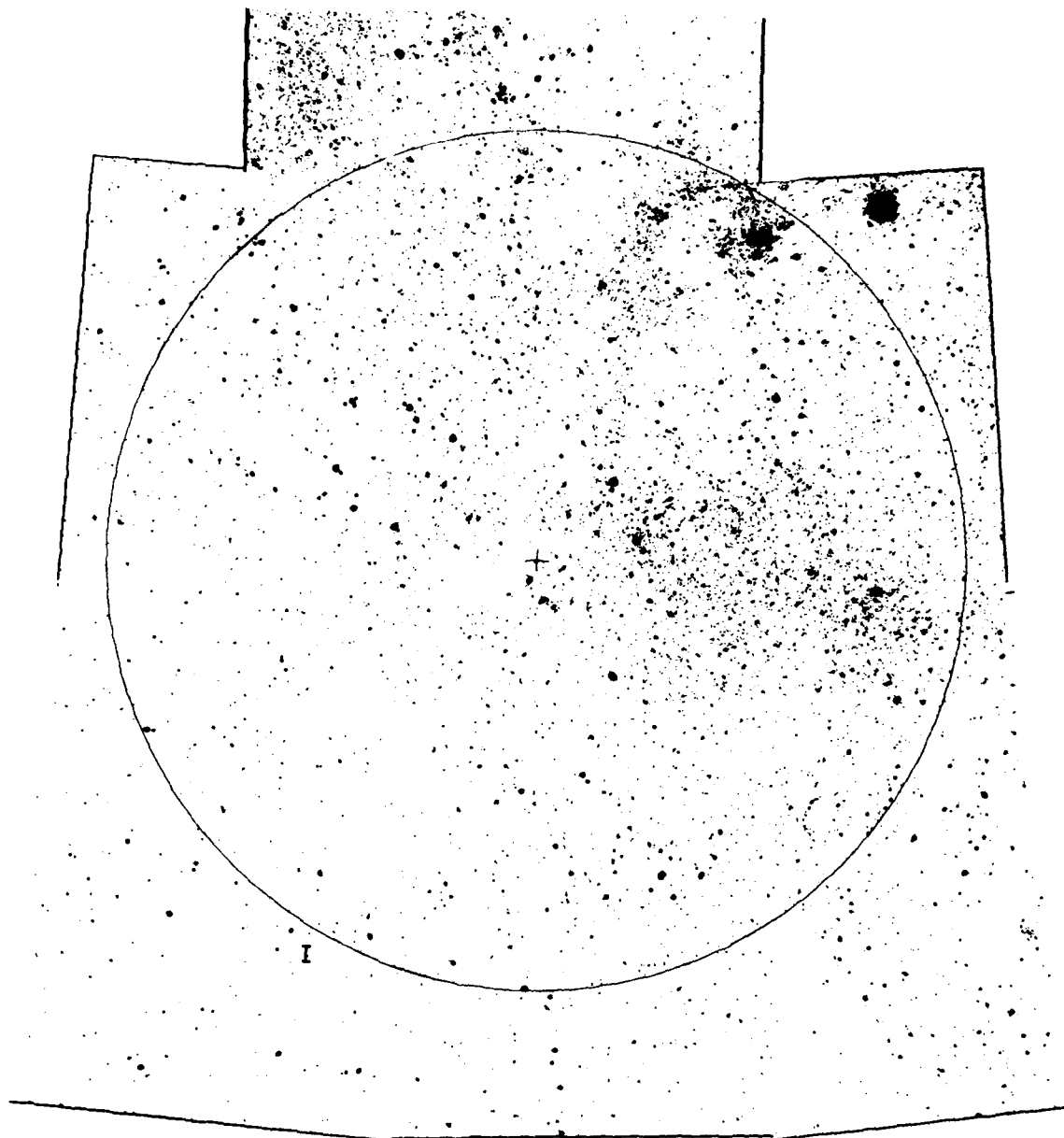


Fig. 3a — Preselected target field (Cygnus), with the approximate area covered by the S201 pointing shown by the circle. In this figure, as well as in Figs. 3a, 4a, ..., 11a, the background star field is a mosaic of star charts from *The Falkau Atlas*, Photographic Star Atlas 1950.0, 3rd edition, 1972, reproduced with the permission of the author, Hans Vehrenberg.



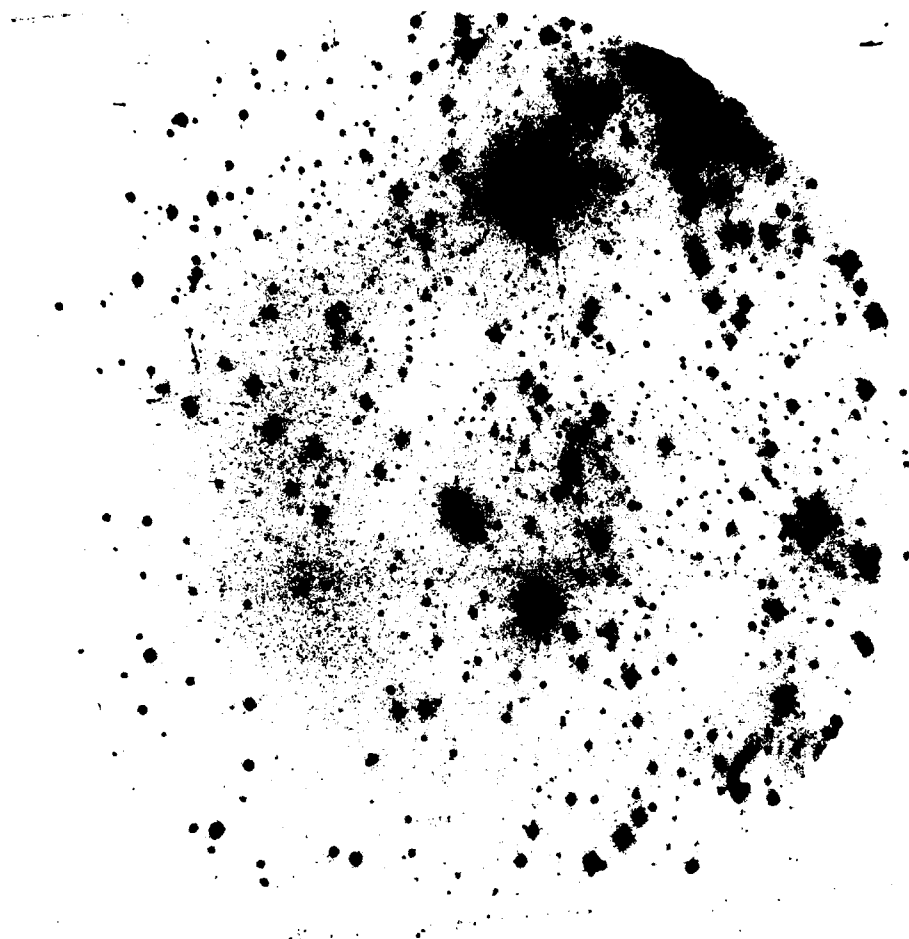


Fig. 3b — S201 starfield photograph (Cygnus), frame A27 (ICa, 10-min exposure time)

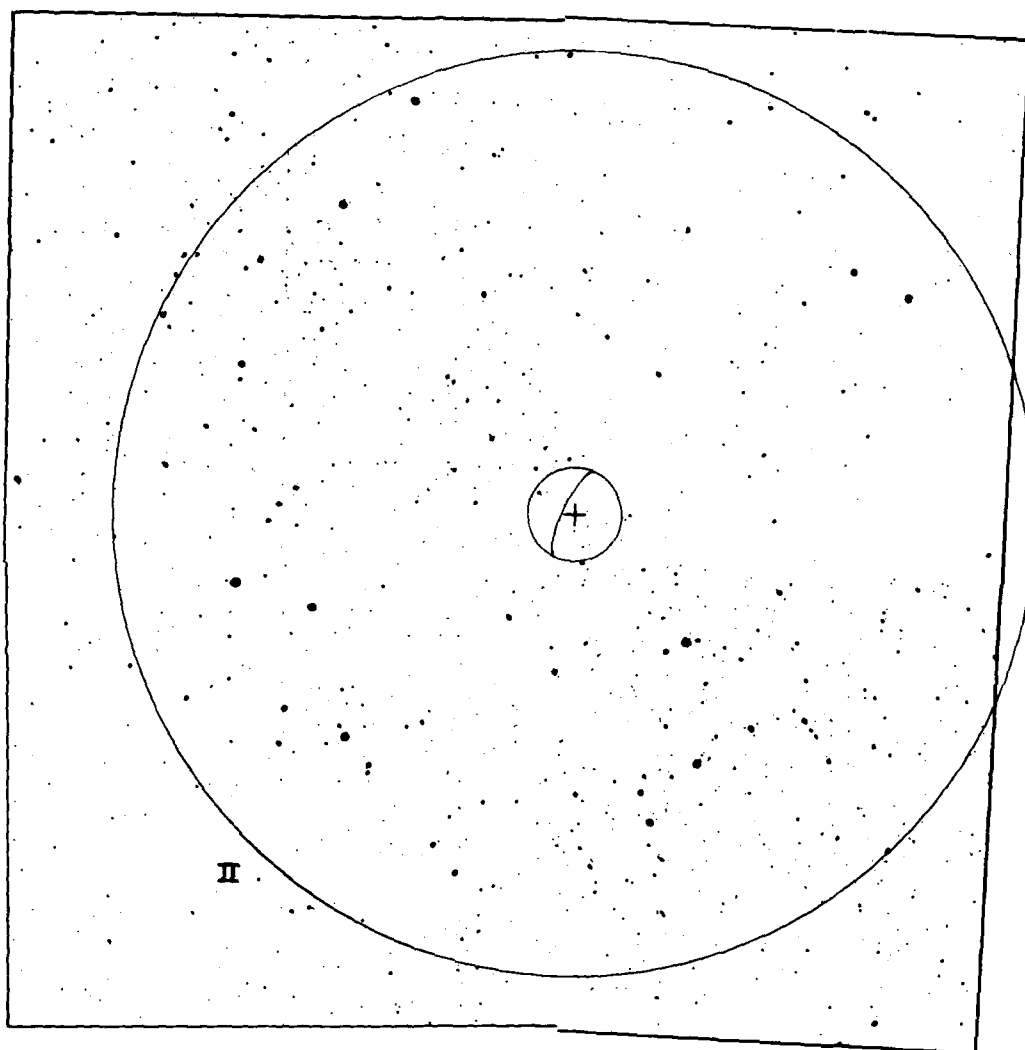


Fig. 4a — Preselected target field (Earth-Capricornis). The approximate area covered by the S201 pointing is shown by the circle.

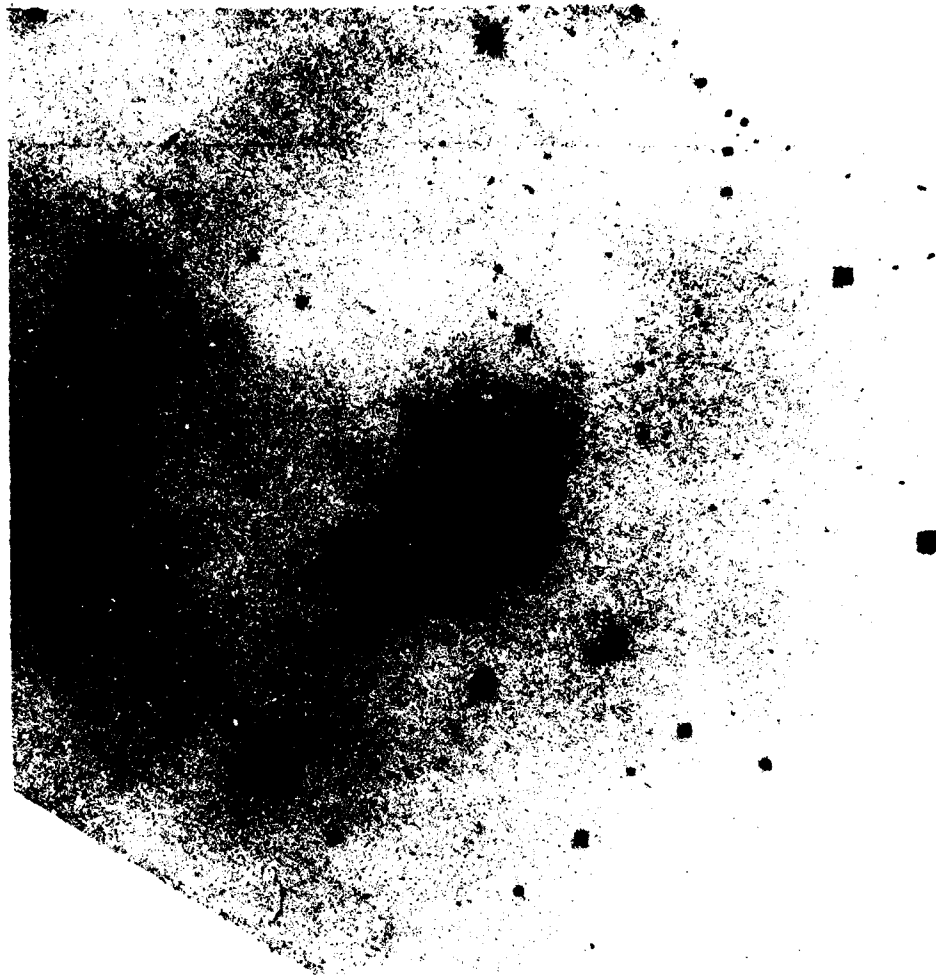


Fig. 4b — S201 starfield photograph (Earth-Capricornis), frame A45 (ICa, 10-min exposure)

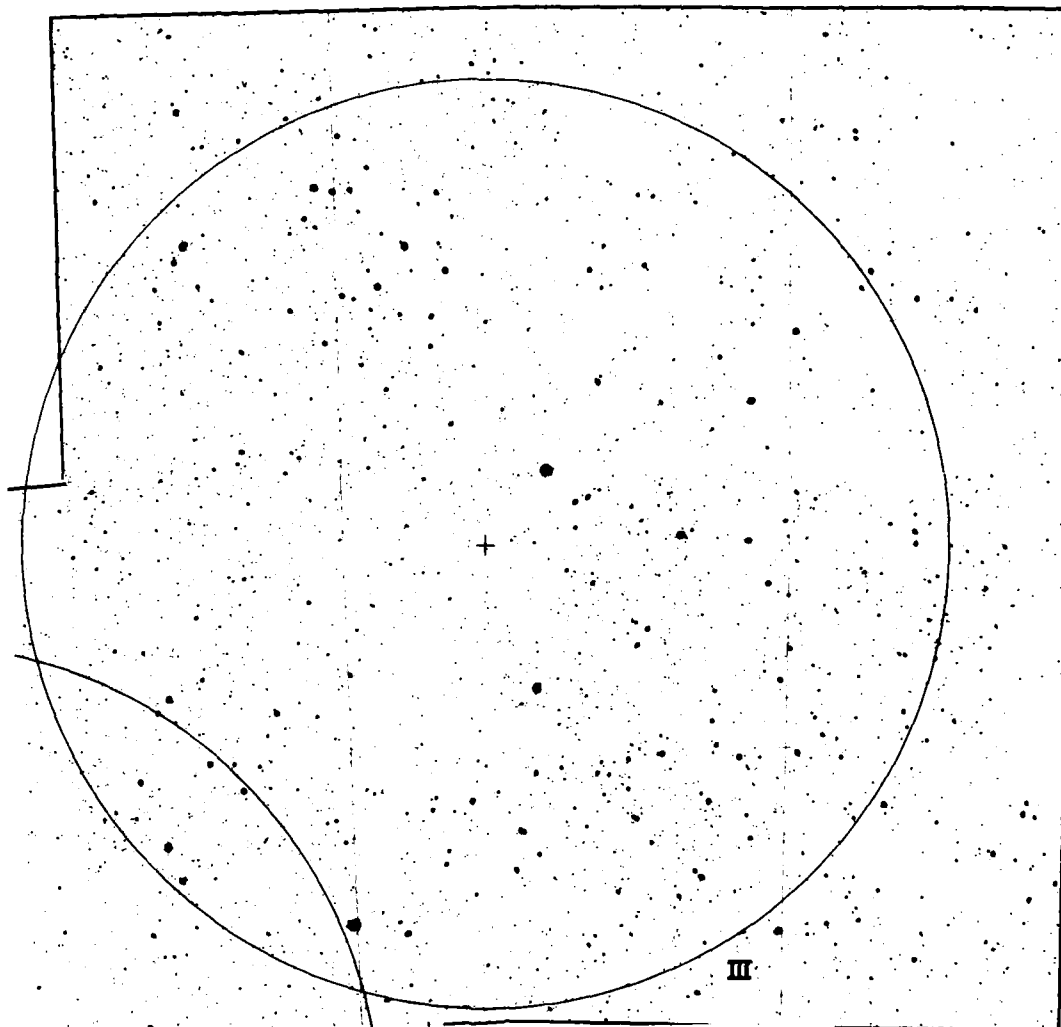


Fig. 5a — Preselected target field (Cetus). The approximate area covered by the S201 pointing is shown by the full circle.

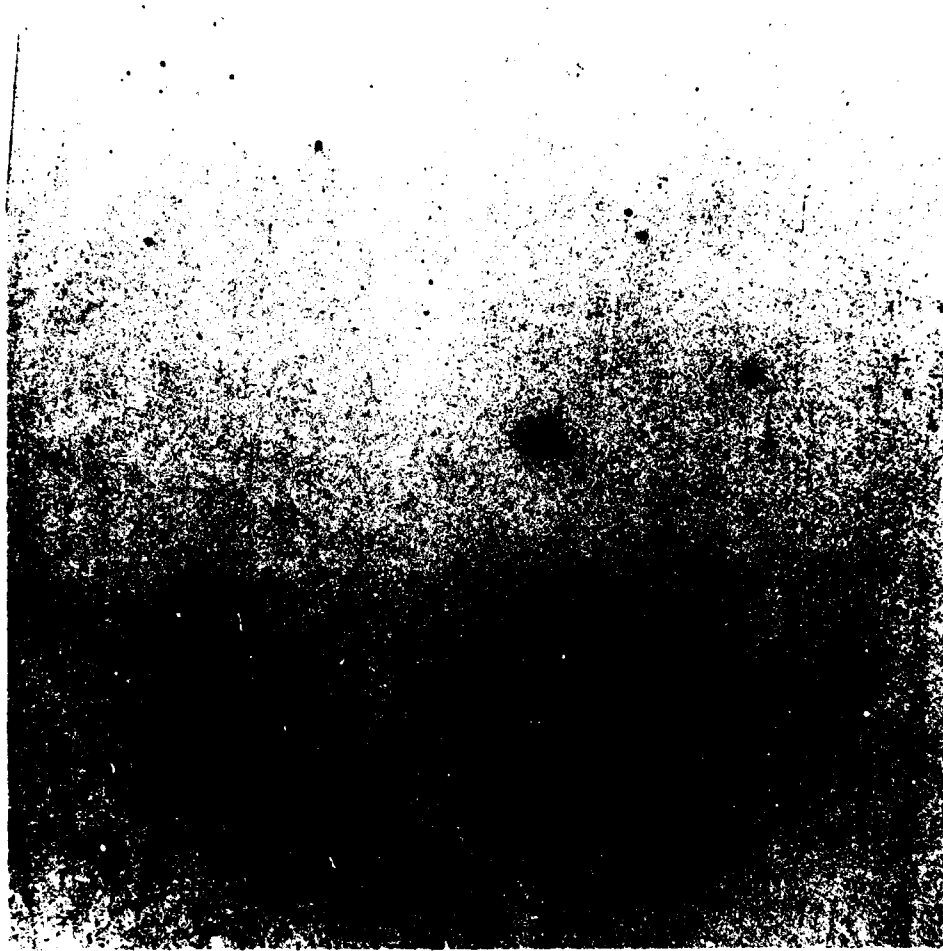


Fig. 5b — S201 starfield photograph (Cetus), frame A63 (ICa, 10-min exposure)

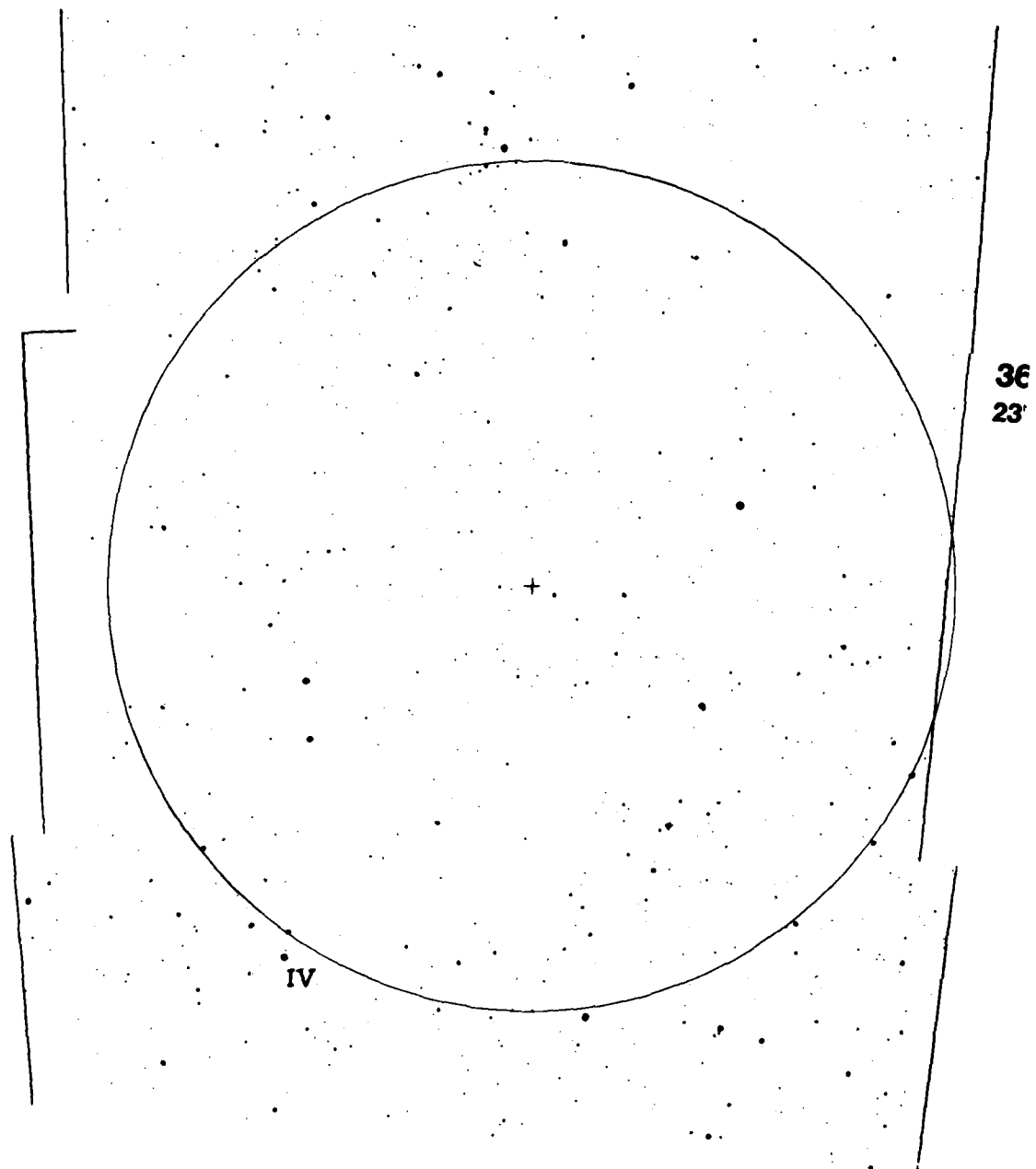


Fig. 6a — Preselected target field (Grus). The approximate area covered by the S201 pointing is shown by the circle.



Fig. 6b — S201 starfield photograph (Grus), frame A93 (ICa. 10-min exposure)

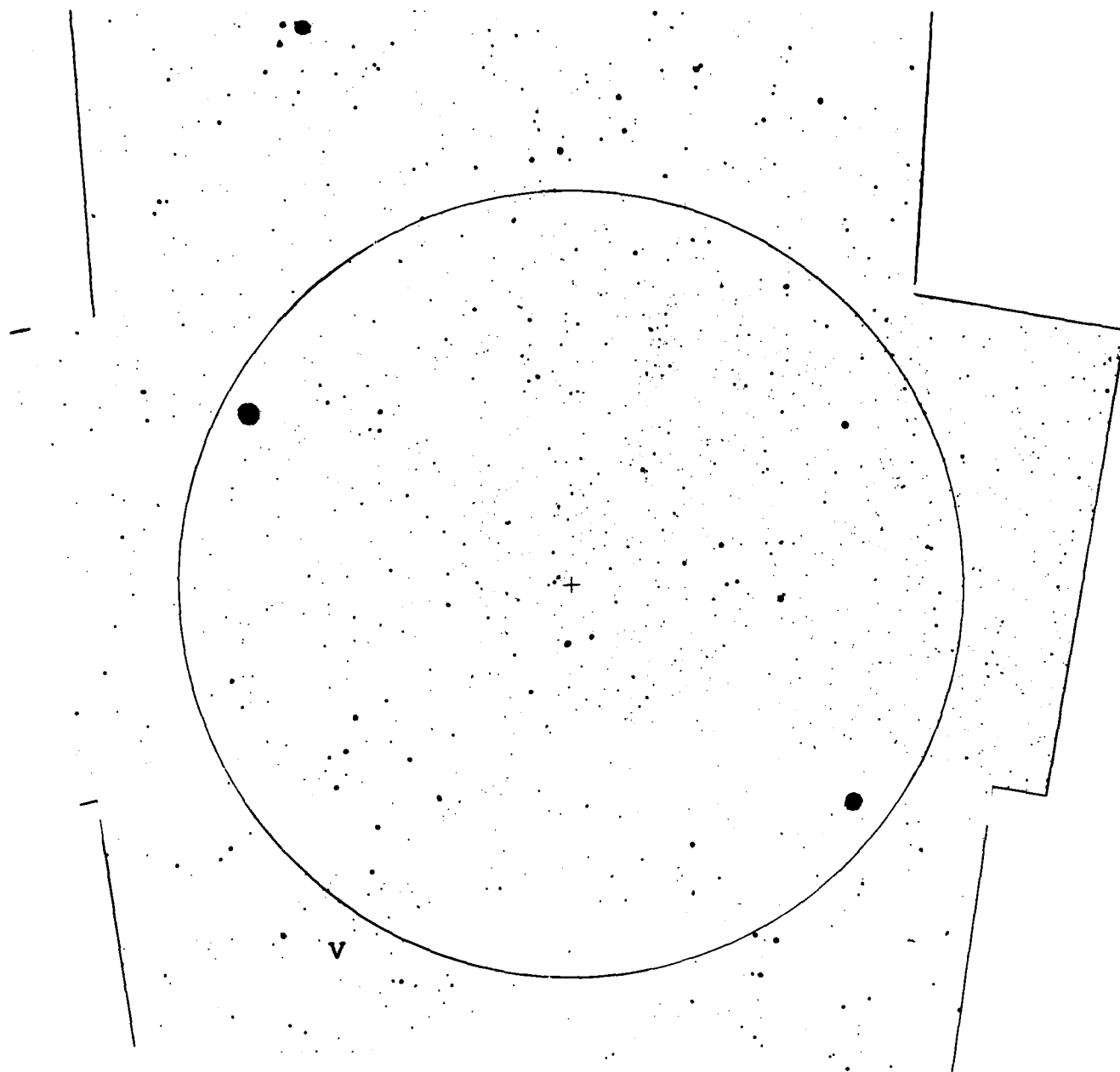


Fig. 7a — Preselected target field (Pavo). The approximate area covered by the S201 pointing is shown by the circle.



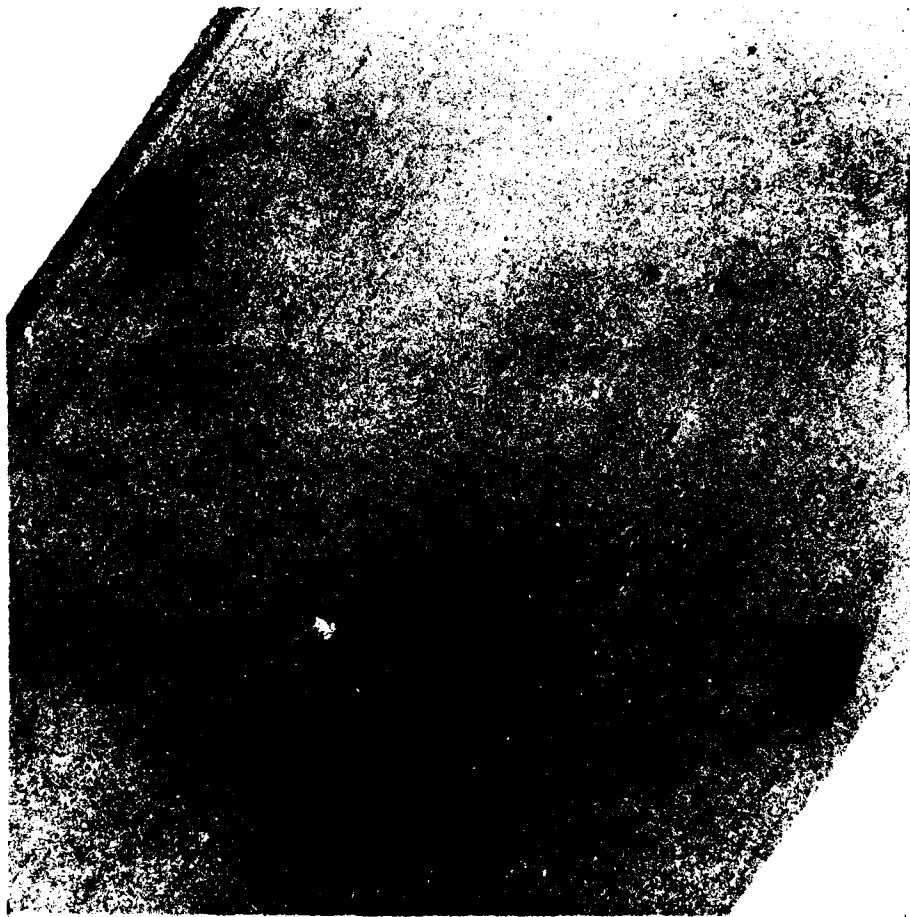


Fig. 7b — S201 starfield photograph (Pavo), frame A121 (ICa, 3-min exposure)

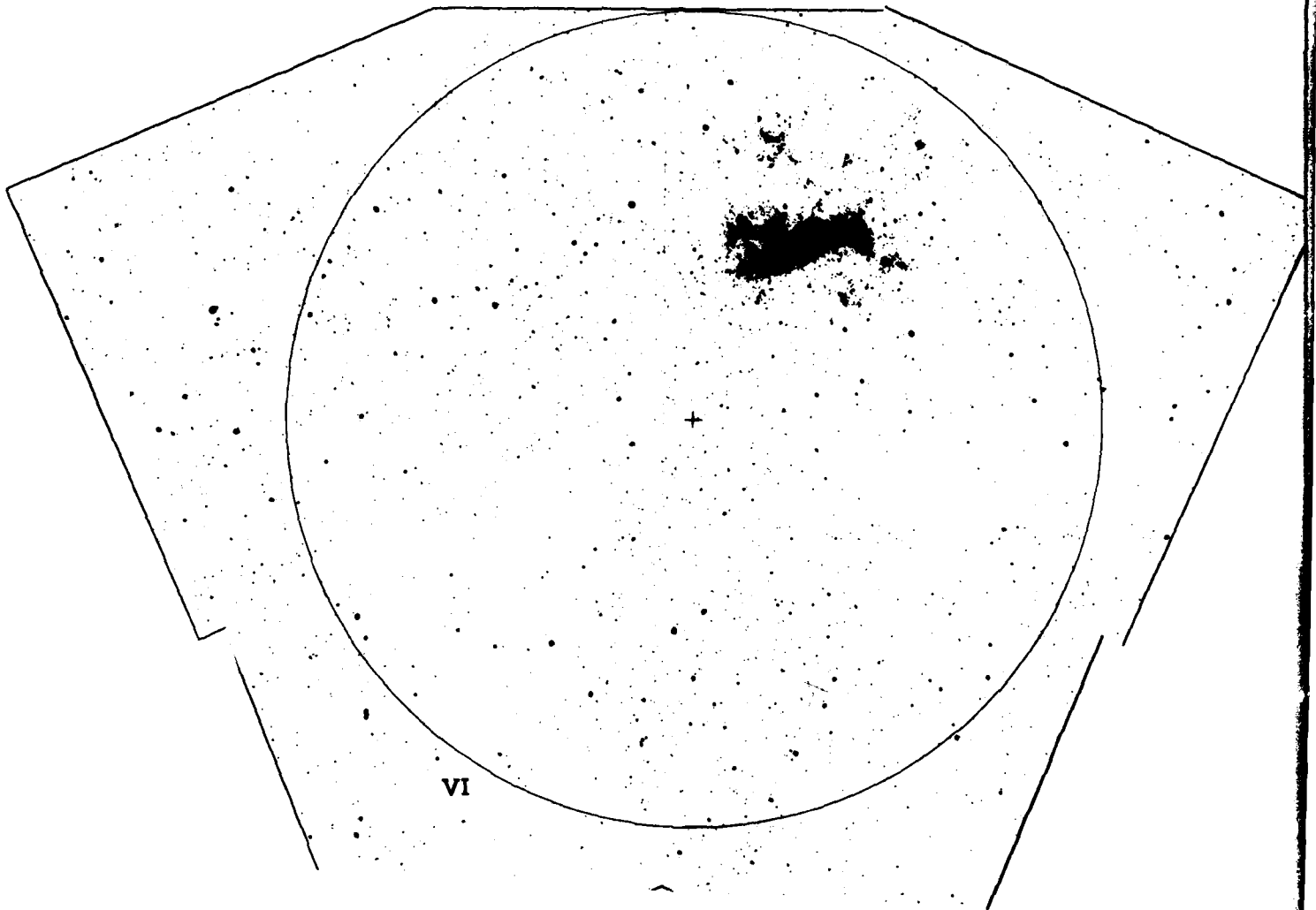


Fig. 8a — Preselected target field (Mensa-LMC). The approximate area covered by the S201 pointing is shown by the circle.



Fig. 8b — S201 starfield photograph (Mensa-LMC), frame A129 (ICa, 10-min exposure)

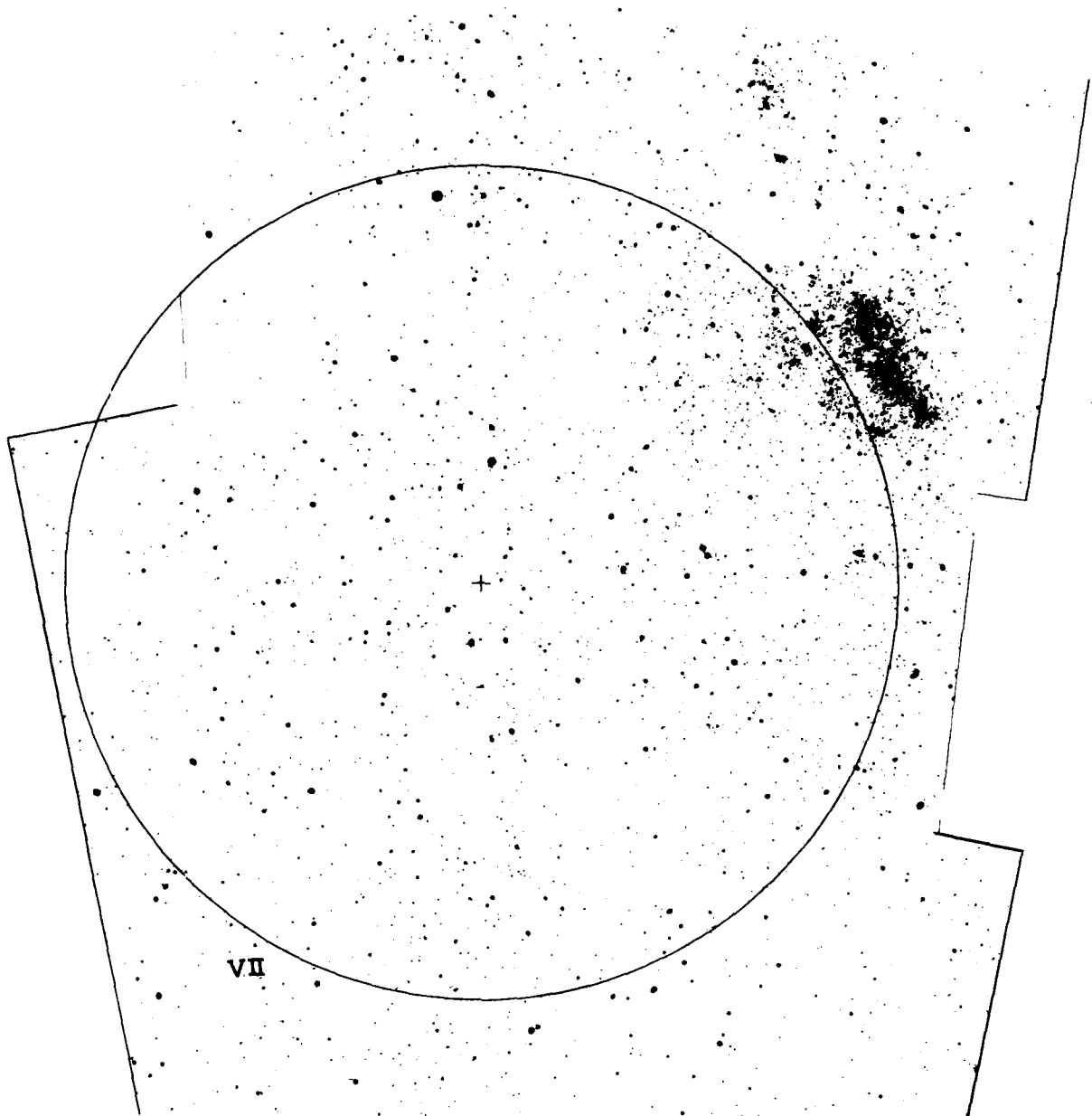


Fig. 9a — Preselected target field (Norma). The approximate area covered by the S201 pointing is shown by the circle.

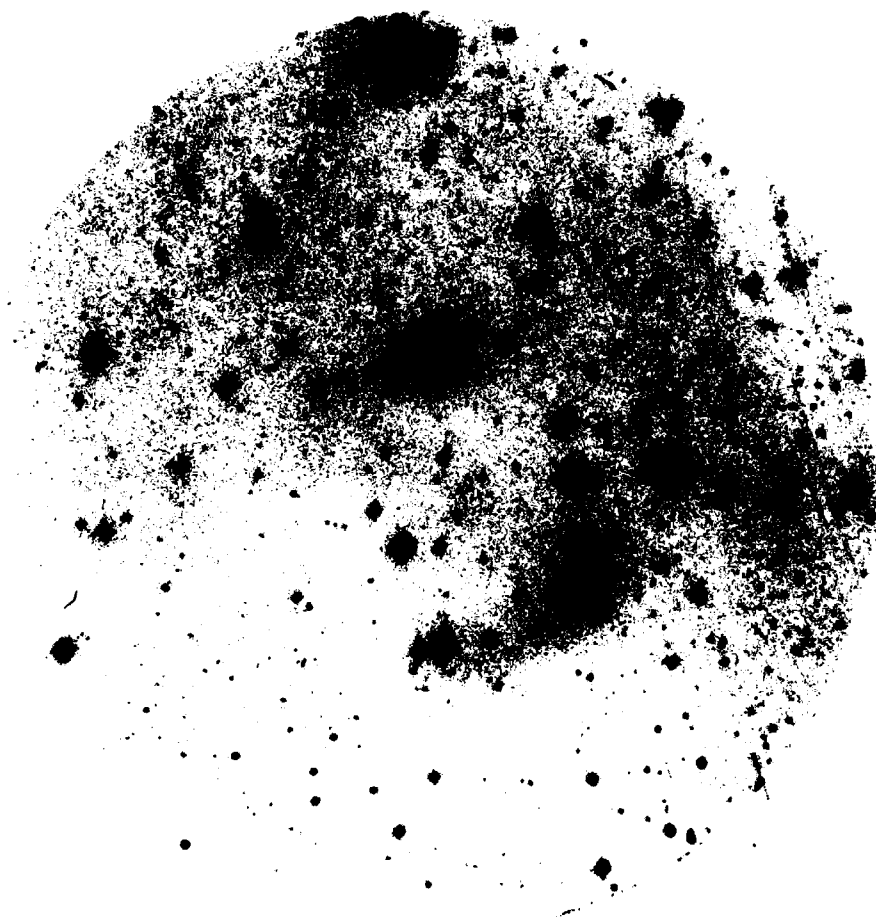


Fig. 9b — S201 starfield photograph (Norma), frame A149 (ICa, 4.1-min exposure)

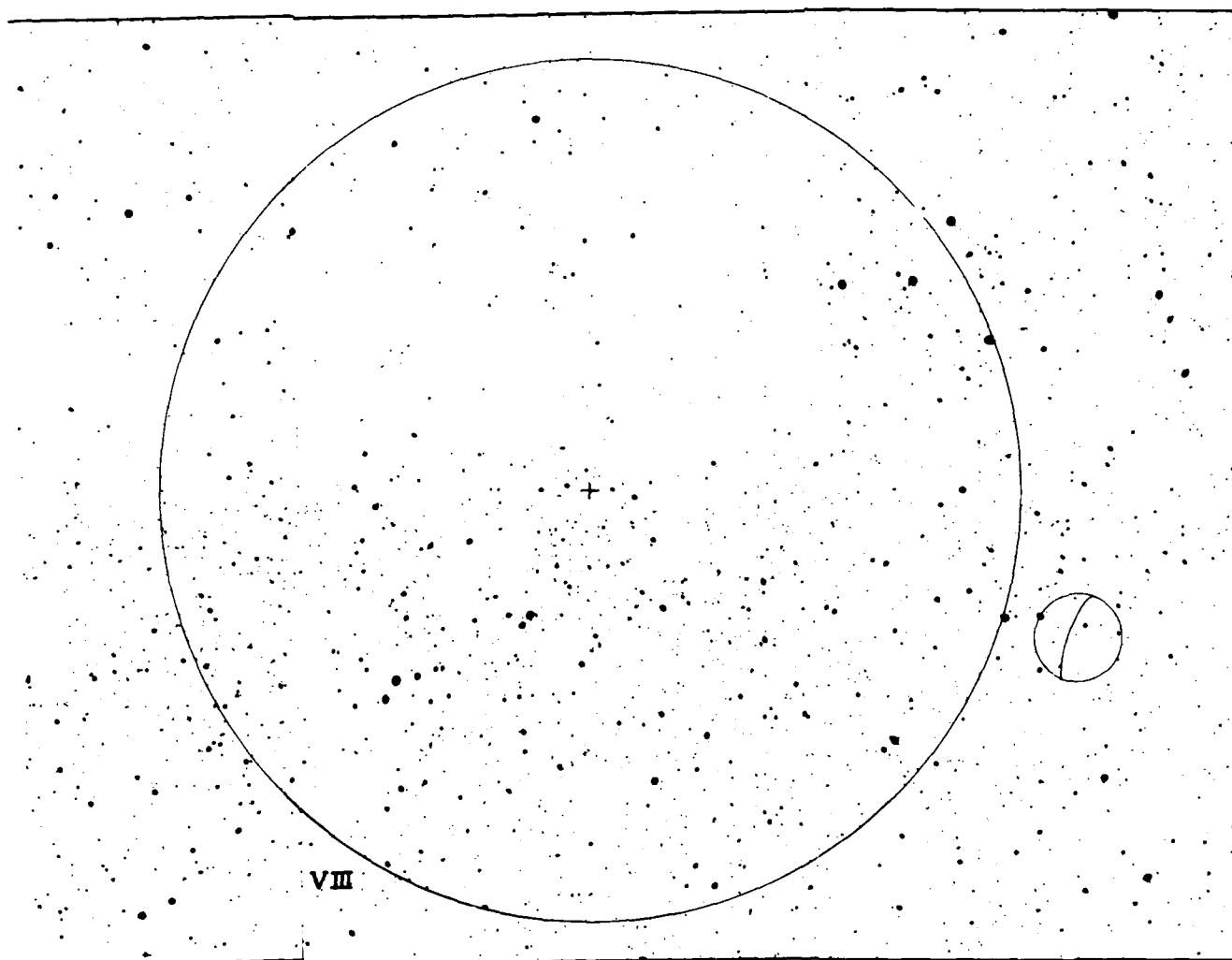


Fig. 10a — Preselected target field (Aquarius-Geocorona). The approximate area covered by the S201 pointing is shown by the circle.

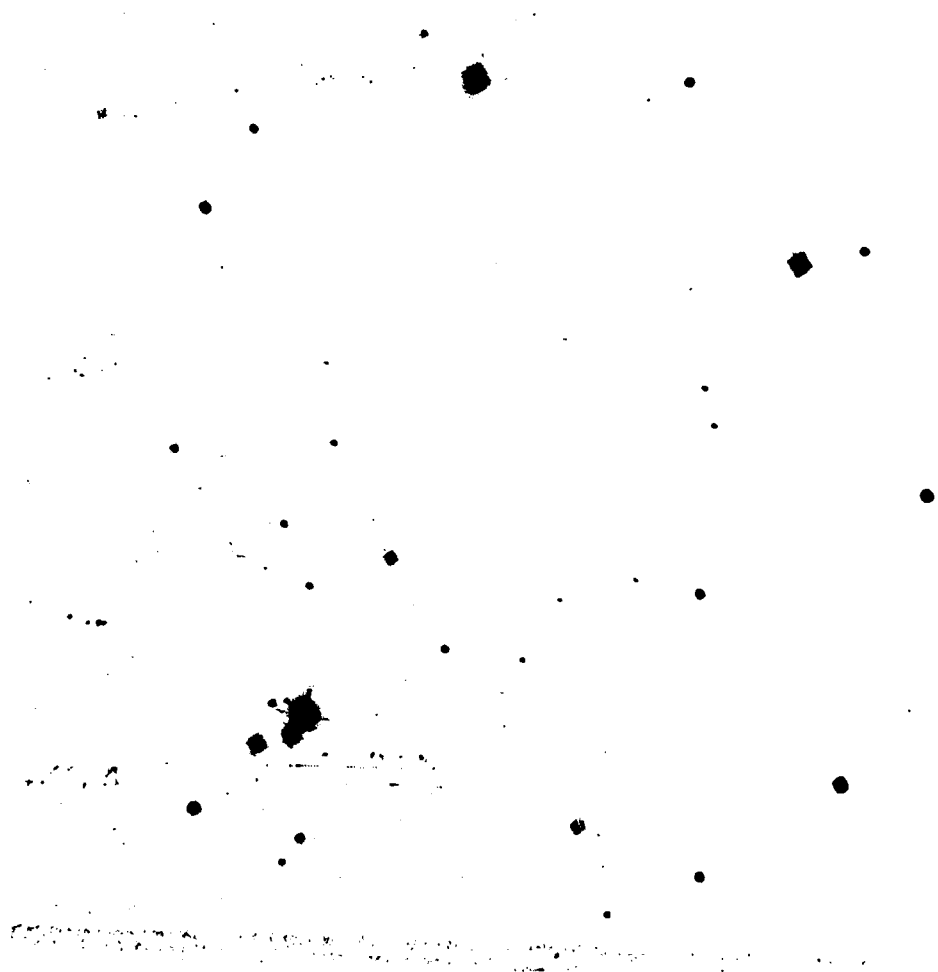


Fig. 10b — S201 starfield photograph (Aquarius-Geocorona), frame A156 (ICa, 10-min exposure)

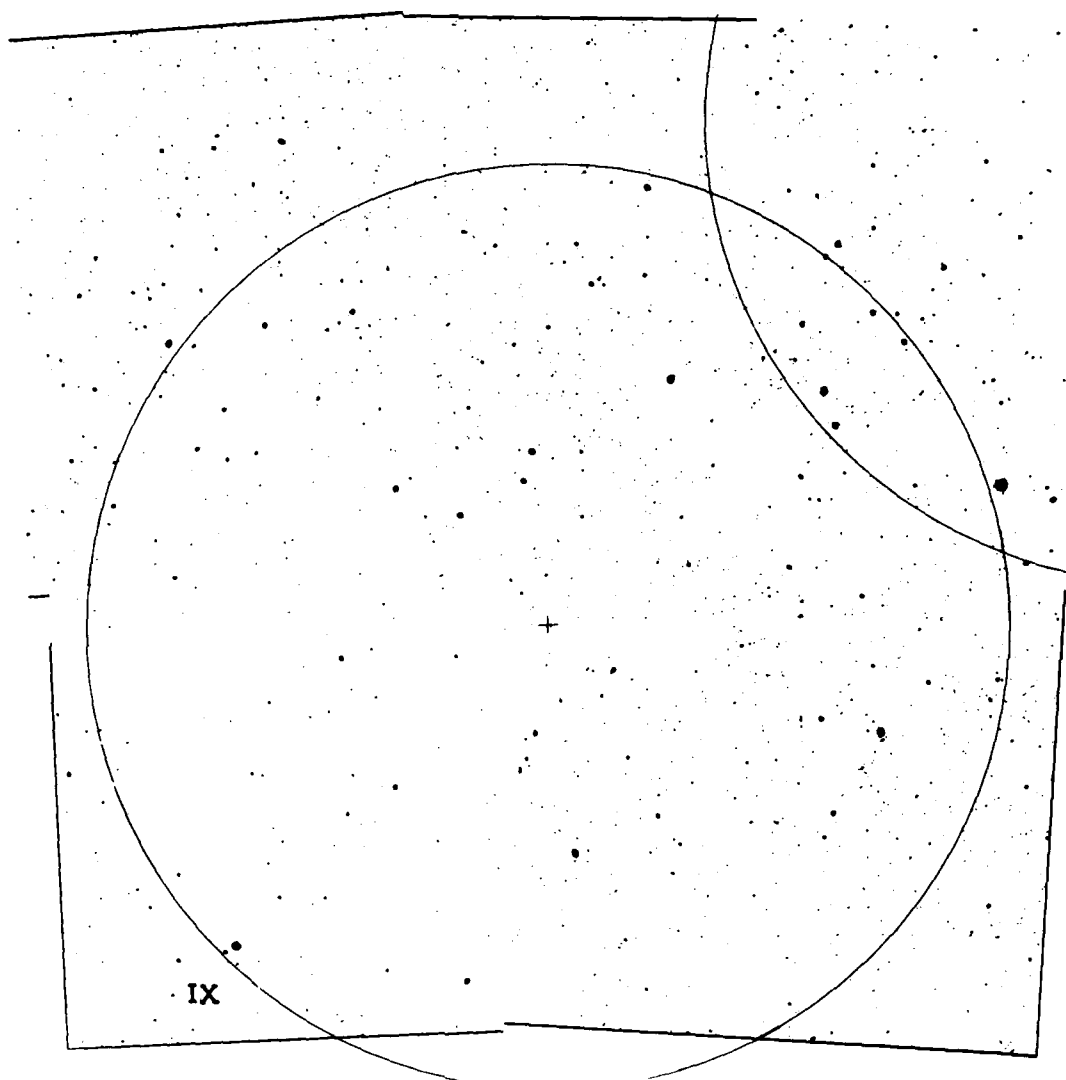


Fig. 11a — Preselected target field (Fornax). The approximate area covered by the S201 pointing is shown by the full circle.



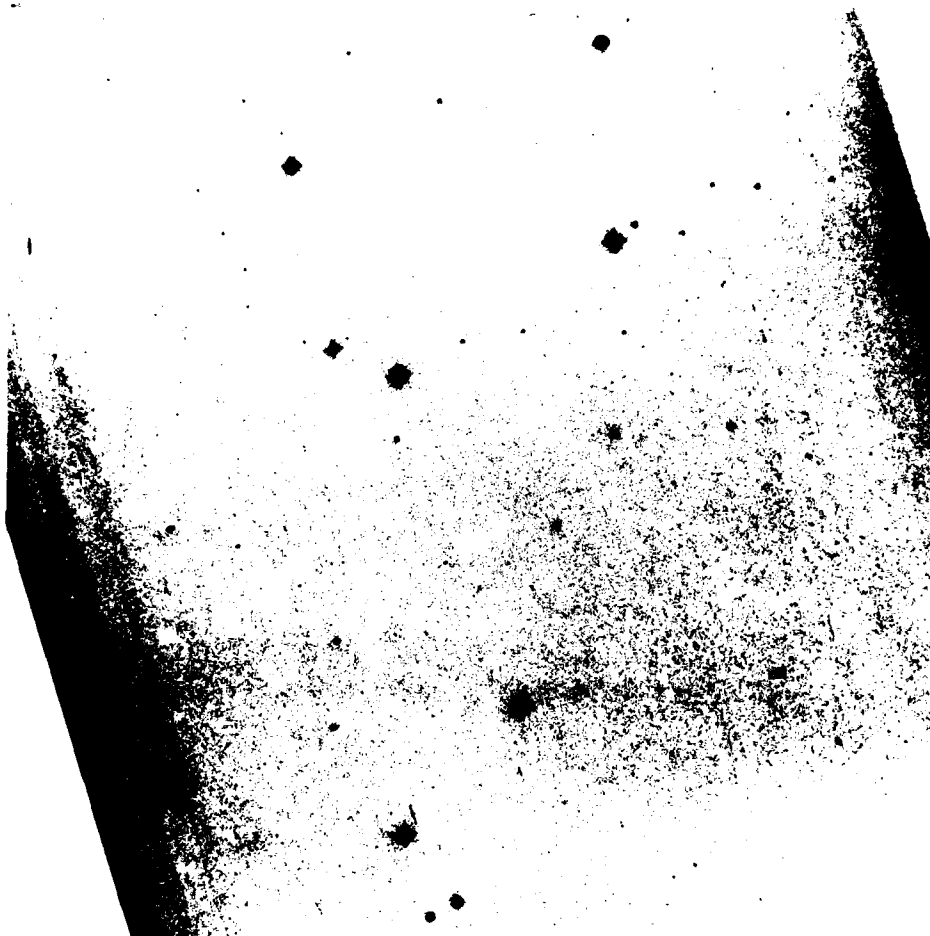


Fig. 11b — S201 starfield photograph (Fornax), frame A192 (ICa, 3-min exposure)

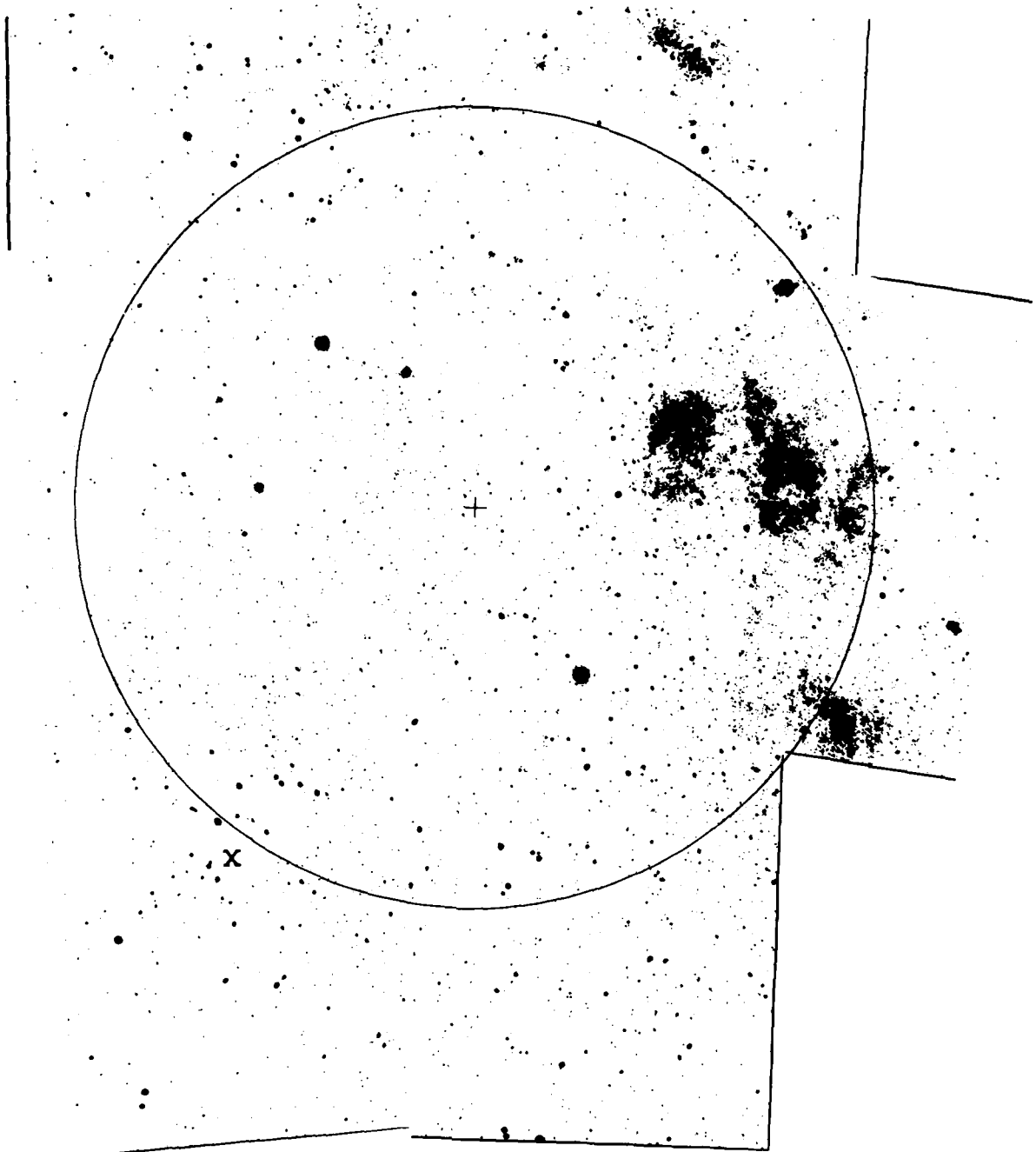


Fig. 12a — Preselected target field (Sagittarius). The approximate area covered by the S201 pointing is shown by the circle.

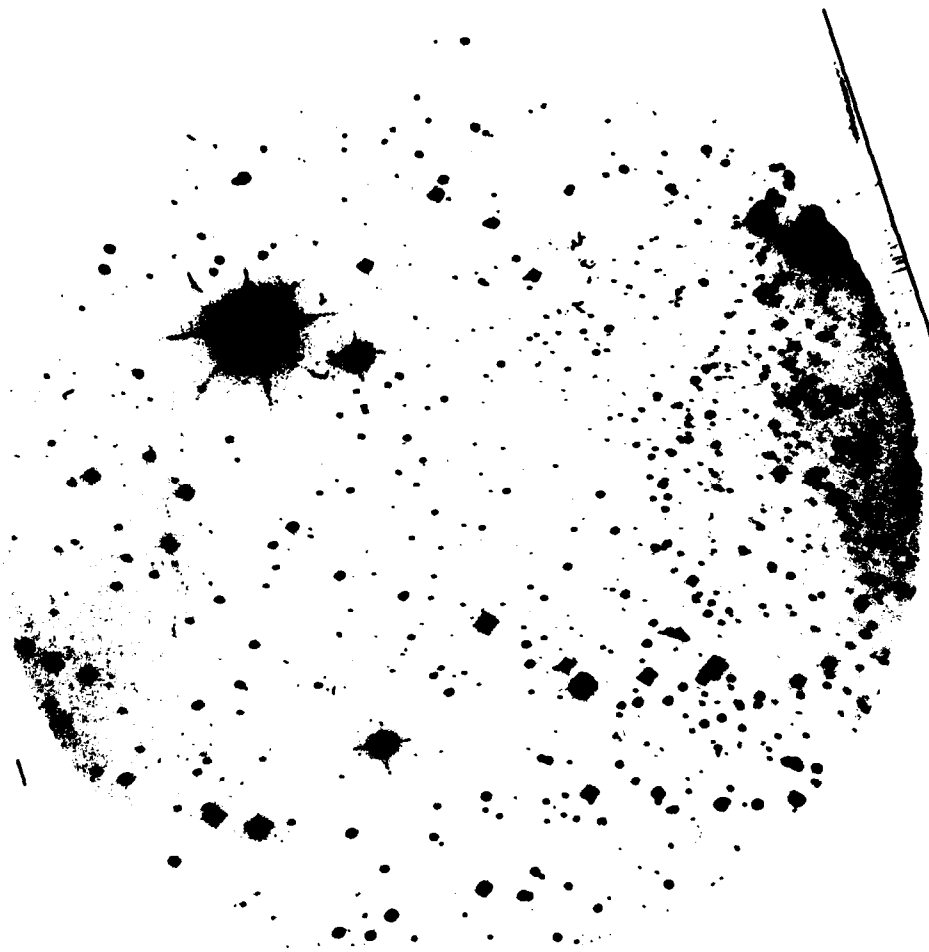


Fig. 12b — S201 starfield photograph (Sagittarius), frame A203 (ICa, 10-min exposure)

Table 1 — Apollo Frames Scanned and Measured

In this table,  $\alpha_0$  and  $\delta_0$  are coordinates of the scan center, at  $x = 512$ ,  $y = 512$  rasters;  $\theta_0$  is the position angle of the  $-y$  scan axis projected on the sky; "Stand Stars" is the number of  $\alpha$ ,  $\delta$  and  $x$ ,  $y$  inputs to the COORDINATE TRANSFORMATION program;  $\sigma$  is the larger of rms  $x$  residuals or  $y$  residuals, given in rasters, "No. of Images" is the number of starlike images of four or more pixels located by the STAR DETECTION program; "BG Range" is the range of the background density in units of 0.01D; "SAO Stars" is the number of star images within 5 arc-min of stars listed in the Smithsonian Astrophysical Observatory catalog (1966); and "NOs" (non-SAO objects) is the number of starlike images detected on two or more frames which are more than 10 arc-min from any star in the SAO catalog. Except for the three entries footnoted, the local background was the average of five surrounding pixels. The totals for each field list the number of SAO stars and of NOs in parentheses.

Frame	Exp (min)	Filter	$\alpha_0$ (deg)	$\delta_0$ (deg)	$\theta_0$ (deg)	Stand Stars	$\sigma$	No. of Images	BG Range	SAO Stars	NOs (Objects)
Cygnus (loop nebula)											
A21	1/4	Li	320.97	+37.57	+05.97	19	1.7	36	22-30	32	0
22	1	Li	321.15	+37.47	+06.09	23	1.9	130	60-70	103	3
23	3	Li	321.03	+37.51	+06.22	22	1.9	243	104-143	182	15
26	3	Ca	319.66	+37.58	+04.94	23	2.4	197	14-20	166	4
27	10	Ca	321.12	+37.42	+05.68	23	2.0	444	18-30	336	26
28	3.7	Ca	321.20	+37.55	+05.86	23	2.0	240	15-28	212	9
Total								1290		(419)	(31)
Capricorn (earth centered)											
A40	1	Li	318.73	-14.43	-31.33	6	1.9	31	75-292	17	1
41	3	Li	318.71	-14.36	-31.40	8	1.9	30	158-348	19	1
44	3	Ca	318.49	-14.47	-31.46	12	1.8	30	17-25	29	1
45	10	Ca	318.34	-14.70	-31.69	12	2.2	39	17-28	31	3
46	30	Ca	318.59	-14.63	-31.80	12	2.1	46	12-30	32	2
Total								176		(39)	(4)
Cetus (for NGC1068)											
A58	1	Li	41.76	-15.26	+85.41	3	0.4	6	33-40	3	1
59	3	Li	41.79	-15.24	+85.10	5	3.2	15	68-83	9	2
62	3	Ca	40.57	-14.09	+85.19	5	2.3	17	12-17	7	1
63	10	Ca	40.54	-14.09	+85.21	6	2.5	24	15-20	11	3
64	8.4	Ca	41.69	-14.03	+85.47	5	1.9	21	17-24	13	3
Total								83		(14)	(3)
Grus (for NGC55)											
A68	1	Li	353.12	-42.61	+153.87	6	2.7	12	48-63	7	1
69	3	Li	353.20	-42.64	+153.97	8	1.4	16	102-128	9	1
72	3	Ca	354.53	-42.09	+152.71	8	1.8	18	13-19	9	1
73	10	Ca	353.81	-42.43	+153.38	8	1.5	22	15-23	11	1
88	1	Li	358.11	-40.73	+153.59	3	3.3	9	43-59	3	0
92	3	Ca	358.40	-40.58	+153.47	6	2.4	22	10-22	9	1
93	10	Ca	358.70	-40.38	+153.36	6	2.3	20	16-26	10	2
94	30	Ca	358.48	-40.50	+153.91	6	2.0	31	17-27	10	2
Total								150		(22)	(2)

(Table continues.)

Table 1 (Concluded) — Apollo Frames Scanned and Measured

Frame	Exp (min)	Filter	$\alpha_0$ (deg)	$\delta_0$ (deg)	$\theta_0$ (deg)	Stand Stars	$\sigma$	No. of Images	BG Range	SAO Stars	NOs (Objects)
Pavo											
A117	1	Li	318.55	-52.23	+234.76	9	2.7	23	47-62	9	0
118	3	Li	318.51	-52.16	+235.02	10	3.0	29	106-136	11	2
121	3	Ca	318.86	-52.27	+234.79	10	1.8	34	14-28	12	2
Total								86		(17)	(3)
Mensa (LMC included)											
A124	1	Li	87.44	-74.00	+85.86	10	1.4	67	57-90	16	13
125	3	Li	87.54	-74.03	+85.80	11	1.8	143	150-170	25	31
129	10	Ca	87.43	-74.03	+86.10	11	1.7	235	30-70	37	51
130	30	Ca	87.25	-74.04	+86.31	7	1.4	470	70-120	43	73
Total								915		(51)	(80)
Norma (for NGC6300)											
A144	1	Li	260.80	-59.06	-70.30	15	1.5	138	70-100	88	11
145	3	Li	260.85	-59.09	-70.26	15	1.6	241	160-300	165	26
148	3	Ca	261.13	-59.06	-70.42	15	1.5	220	20-28	159	24
149	4.1	Ca	260.96	-59.08	-70.16	15	1.7	296	25-35	197	27
Total								895		(281)	(39)
Aquarius (geocorona)											
A150	1/4	Li	344.26	-05.16	-03.40	5	1.5	8	30-49	8	0
151	1	Li	344.27	-05.06	-03.29	10	1.4	15	47-77	13	2
152	3	Li	344.30	-05.05	-03.40	11	1.4	29	130-380	22	4
155	3	Ca	344.29	-05.13	-03.21	11	2.0	23	13-22	21	2
156	10	Ca	344.46	-05.09	-03.11	11	1.8	32	16-24	26	4
157	30	Ca	344.66	-05.02	-03.23	11	1.7	38	15-35	27	4
171	1	Li	348.96	-03.31	-03.78	10	2.9	13	50-75	11	1
172	3	Li	348.99	-03.23	-03.77	9	1.7	23	105-360	17	3
175	3	Ca	352.26	-02.89	-04.39	9	2.3	16	13-29	14	1
176	10	Ca	349.04	-03.25	-03.84	10	2.9	25	14-25	23	3
177	30	Ca	349.21	-03.20	-03.87	10	2.9	29	13-39	25	4
Total								251		(34)	(7)
Fornax											
A191	1	Li	55.38	-27.20	+107.07	6	1.0	15	30-53	13	0
192	3	Li	55.38	-27.19	+107.10	6	1.1	30	67-88†	20	2
195	3	Ca	55.75	-27.47	+106.93	6	1.6	31	14-20	16	1
196	0.3	Ca	55.75	-27.45	+106.92	6	1.1	9	14-20	9	0
Total								85		(23)	(2)
Sagittarius (Milky Way)											
A198	1	Li	278.36	-30.40	-71.72	14	1.6	173	60-144	107	16
199	3	Li	278.33	-30.41	-71.75	14	2.0	791	210-300†	596	43
201	0.5	Ca	278.0	-30.5	-72	7	—	44	22-37	44	0
202	3	Ca	278.46	-30.55	-71.78	14	1.4	280	15-30	206	8
203	10	Ca	278.58	-30.42	-71.93	15	1.9	565	30-70	375	56
204	30	Ca	278.77	-30.37	-72.00	12	1.8	644	50-120†	383	58
Total								2497		(766)	(81)
Grand Total								6428		1666	252

† Average of ten pixels.

‡ Average of 20 pixels.

background  $B$ . From these determinations the "density-volume" of the image,  $V = \sum_v (D - B)$  can be derived. This program was described in detail in Appendix A of NRL Report 8173 (cited on the inside front cover). The density-volume is a measure of the total intensity of an image. When corrected for instrumental and microdensitometry effects, and when a calibration (based on preflight tests and/or observations of sources of known intensity) is applied, the density-volume leads to a measurement of the absolute UV brightness of the object imaged.

- The STAR PLOT program was based on a tape created from the SAO catalog tape provided by the Smithsonian Astrophysical Observatory, Cambridge, MA 02138. That catalog [11] lists 258,997 stars as faint as 10.5 visual magnitude (essentially complete to approximately the 9th magnitude) in all parts of the sky, together with spectral type, visual magnitude  $m_v$ , photographic magnitude  $m_p$ , right ascension  $\alpha$ , declination  $\delta$  (the latter two being 1950 coordinates), proper motions, and references. A new tape SAO CATALOG APOLLO was created, listing all SAO stars of O, B, and A types, F stars brighter than 4.5 visual magnitude, and other types brighter than 3.5 visual magnitude in regions covering the ten S201 target fields listed in Table 1. From this tape the STAR PLOT program created plots and lists of the SAO stars in fields accurately matching the S201 fields and using symbols whose sizes roughly represent far-UV magnitudes. These rough far-UV magnitudes were computed using the visual magnitudes and blackbody curves for the effective temperatures appropriate to the spectral classes and integrating the fluxes over the range 1050 to 1600 Å for the ILi frames and over the range 1250 to 1600 Å for the ICa frames. These plots were used to identify three to 23 star images on each frame with the brighter SAO stars. (A previous step had been the identification of three to five bright O-B stars by visual inspection and comparison with the Skalnate-Pleso charts [12].)

It was later found necessary to introduce a "distortion correction" ( $\Delta x$  and  $\Delta y$  as a function of  $x, y$ ) to eliminate an S-shaped distortion produced by the nonuniform magnetic field in the S201 camera. This involved comparing the positions of detected images on isodensity contour plots with the plotted positions of over 150 SAO stars in two fields (Cygnus and Sagittarius), producing plots of resulting  $\Delta x$  and  $\Delta y$ , and smoothing the  $\Delta x, \Delta y$  matrix.

- The COORDINATE TRANSFORMATION program used the input of three or more identified star positions ( $x, y$  and  $\alpha, \delta$ ) and the distortion matrix to convert all detected star positions on one frame from scan coordinates to celestial (1950) coordinates: right ascension ( $\alpha$ ) and declination ( $\delta$ ). The program derives the center-of-frame coordinates  $\alpha_0, \delta_0$  and the angle  $\theta_0$  between the  $-y$  axis and the  $+\delta$  axis (direction north) from the input positions by the method of least squares. The residuals for each input star were printed out and used to spot an occasional misidentified input star. The root-mean-square residuals in  $x$  and  $y$  were used to estimate position errors, typically within 3 arc-min. In Table 1,  $\sigma$  is the larger of the RMS residuals in rasters.

- The STAR IDENTIFICATION program was used to compare the coordinates of detected star-like images on each frame with SAO star coordinates on the SAO CATALOG APOLLO tape and print out a separate line for each star image and the SAO stars within 10 arc-min of that image position. These printouts, in the format of the final S201 catalog, were then edited, eliminating scan defects and correcting background ( $B$ ) values inconsistent with the contour plots. The editing was done with the EXEC VIII Univac 1110 computer; a query (?) was added to doubtful SAO numbers, background values, and density-volume values, and H or L was added to density-volume values considered too high or too low (a factor of 2 above or below the mean) for the SAO spectral type and visual magnitude. The symbol NO (for non-SAO object) was inserted in the SAO-number column when two or more S201 frames recorded an image with no SAO star within 10 arc-min. The non-SAO objects (NOs) are listed in Table 2.

With use of the preceding computer programs, 6428 images were detected and measured on the S201 frames. These correspond to 1666 stars in the SAO Catalog and 283 NOs, as listed in Tables 1 and 2, together with 90 possible identifications in nine other catalogs. Some of the faint NOs may be spurious, but further work is under way by one of us (HMH) to complete these identifications.

Table 2 — Positions and UV Magnitudes of Non-SAO Objects (NOs)  
and Possible Identifications

Entries in this table, which follows on the next five pages, are identified by the field and the object number used in the Revised S201 Catalog listing. The equatorial coordinates (RA and DEC) are for the epoch 1950 and are the measured positions listed in the Revised S201 Catalog. The apparent UV magnitude obtained with the lithium fluoride ( $m_L$ ) and calcium fluoride ( $m_C$ ) filters are unweighted averages computed from the number (indicated in parentheses) of above-threshold images detected by the star detection program. A series of hyphens indicates that no above-threshold images were detected through a given filter. If only one above-threshold image is detected, then existence of a below-threshold image is indicated in the REMARKS column. Possible identifications were obtained primarily through a search of the 1979 edition of the Catalog of Stellar Identifications (Strasbourg Observatory). Candidate identifications are indicated by SAO, HD, Durchmusterung, or other catalog numbers with alternate designations listed in the REMARKS column. A CODE has been assigned to describe the likelihood that the candidate object is the correct identification, with the sense of the code being as follows:

- 4 = early-type candidate star with a position difference less than 3 arc-min,
- 3 = early-type candidate star with a position difference between 3 and 5 arc-min,
- 2 = late-type candidate star with a position difference less than 5 arc-min *and* cataloged evidence of duplicity, *and*
- 1 = early-type candidate star with a position difference greater than 5 arc-min
- BLANK = no likely early-type candidate star.

The apparent blue ( $m_b$ ) and visual ( $m_v$ ) magnitudes are homogenized (F. Ochsenbein, *Astron. Astrophys. Suppl.* **15**, 215 (1974)). The letter V following the blue magnitude indicates variability, and D indicates duplicity. An asterisk following the apparent visual magnitude indicates lower precision (nonhomogenization). A one-dimensional spectral type (HD or pseudo-HD) is indicated under the column heading Sp. Photoelectric UBV photometry was obtained from B. Nicolet, *Astron. Astrophys. Suppl.* **34**, 1 (1978). Modern MK-spectral types were obtained from two sources. The first is based on a merge of three spectral classification catalogs—C. Jascek, H. Conde, and A. de Sierra, ("Catalog of Stellar Spectra Classified in the Morgan-Keenan System," *Publ. La Plata Obs.* **28** (1964); P.M. Kennedy, "MK Classification Extension," published by the Mount Stromlo Observatory, 1978; and M. Jascek, "Catalog of Selected Spectral Types in the MK System," *CDS Information Bulletin* **15**, 121). The second source is based on the first two volumes of the "Michigan Catalog of 2-Dimensional Spectral Types for the HD Stars," the first volume (1975) being by N. Houk and A.P. Cowley and the second volume (1978) being by N. Houk, with both volumes being published by the University of Michigan.

The position difference between the candidate star and the S201 object is given in minutes of time (for RA) and in minutes of arc (for DEC). This difference is in terms of the S201 position minus the candidate star position. The distance between the S201 position and the candidate star position (in arc-minutes) is indicated under the column heading Dist.

The REMARKS column includes alternate names for the candidate star and comments concerning the S201 image(s). Other less familiar catalog identifications are as follows:

- LS = "Luminous Stars of the Northern Milky Way" and "Luminous Stars of the Southern Milky Way," published from 1959 to 1971 by Hamburg-Bergedorf and Warner and Swasey Observatory;
- ADS = "New General Catalogue of Double Stars within 120 degrees of the North Pole," published in 1932 by R.G. Aitken, Carnegie Institution, Washington, D.C.;
- IDS = "Index Catalogue of Visual Double Stars," published in 1963 as Lick Observatory Publication 21.

There are 37 objects located in the LMC which are listed as NOs in the Revised S201 Catalog. These objects are not listed in Table 2. The reader is referred to Ref. 29 (*Revised Listing, S201 Far-UV Atlas of the Large Magellanic Cloud*) for information on these objects. Additional information on these LMC objects and all the objects listed in the following table is being prepared as a separate NRL Report.

(Table follows on pages 30 through 34.)

Table 2 — Positions and UV Magnitudes of Non-SAO Objects (NOs) and Possible identifications

OBJECT NUMBER	RA (1950)	DEC	UV-MAGNITUDE $m_{\text{F}}^{\text{c}}$	POSSIBLE IDENT.	CODE	$m_{\text{B}}$	$m_{\text{V}}$	Sp.	B-V	U-B	M. Spect.	$\Delta$	$\Delta$	DEC Dist	REMARKS
CYG 21	20 49 55	38 0 13.37	7.23(1)	BD +35 4277	4	9.3	9.31	B-	-0.08	-0.85	OB-CE	0.10	-1.3	1.8	SECOND FAINT ICA IMAGE
CYG 137-111	20 49 55	38 51 7	7.14(2)	BD +36 4308	4	9.9	9.84	B-	-0.03	-0.75	OB-CE	0.05	-0.5	0.8	SECOND FAINT ICA IMAGE
CYG 170	20 50 16	38 11 5	8.63(1)	LS 11 +30 36	3	10.6		B-				0.00	-5.0	5.0	SECOND FAINT ICA IMAGE
CYG 205	20 52 11	36 49 17	8.88(1)	BD +31 4300	4	9.5		B-				0.02	-2.7	2.7	SECOND FAINT ICA IMAGE
CYG 302-303	20 56 40	30 50 0	8.55(1)	BD +20528	4	8.4V		B-				-0.05	1.1	1.2	SECOND FAINT ICA IMAGE
CYG 304	20 57 16	38 35 38	7.80(1)	BD +39 4453	4	9.2		B-				0.07	1.1	1.3	SECOND FAINT ICA IMAGE
CYG 311-314	20 57 28	31 57 19	8.40(1)	BD +39 4453	4	9.2		B-				0.07	1.1	1.3	SECOND FAINT ICA IMAGE
CYG 356-359	21 0 44	41 16 18	8.61(1)	BD +39 4453	4	9.2		B-				0.07	1.1	1.3	SECOND FAINT ICA IMAGE
CYG 359	21 0 44	41 16 18	8.61(1)	BD +39 4453	4	9.2		B-				0.07	1.1	1.3	SECOND FAINT ICA IMAGE
CYG 406-407	21 3 27	36 43 53	8.62(1)	BD +39 4453	4	9.2		B-				0.07	1.1	1.3	SECOND FAINT ICA IMAGE
CYG 465-467	21 7 6	40 3 18	8.58(1)	BD +39 4453	4	9.2		B-				0.07	1.1	1.3	SECOND FAINT ICA IMAGE
CYG 472	21 7 30	40 12 18	8.75(1)	BD +39 4453	4	9.2		B-				0.07	1.1	1.3	SECOND FAINT ICA IMAGE
CYG 483	21 7 50	36 27 26	8.70(1)	BD +39 4453	4	9.2		B-				0.07	1.1	1.3	SECOND FAINT ICA IMAGE
CYG 513-514	21 8 20	33 8 6	8.72(1)	BD +39 4453	4	9.2		B-				0.07	1.1	1.3	SECOND FAINT ICA IMAGE
CYG 538	21 9 10	34 7 47	8.39(1)	BD +39 4453	4	9.2		B-				0.07	1.1	1.3	SECOND FAINT ICA IMAGE
CYG 644	21 12 32	37 18 18	8.56(1)	BD +39 4453	4	9.2		B-				0.07	1.1	1.3	SECOND FAINT ICA IMAGE
CYG 645	21 12 32	37 18 18	8.56(1)	BD +39 4453	4	9.2		B-				0.07	1.1	1.3	SECOND FAINT ICA IMAGE
CYG 640	21 13 42	33 38 12	7.98(1)	BD +39 4453	4	9.2		B-				0.07	1.1	1.3	SECOND FAINT ICA IMAGE
CYG 674-676	21 15 0	34 1 28	8.26(1)	BD +39 4453	4	9.2		B-				0.07	1.1	1.3	SECOND FAINT ICA IMAGE
CYG 685	21 15 23	36 59 25	9.00(1)	BD +39 4453	4	9.2		B-				0.07	1.1	1.3	SECOND FAINT ICA IMAGE
CYG 736-737	21 16 45	38 53 4	9.15(1)	BD +39 4453	4	9.2		B-				0.07	1.1	1.3	SECOND FAINT ICA IMAGE
CYG 761	21 18 13	44 46 7	9.10(1)	BD +39 4453	4	9.2		B-				0.07	1.1	1.3	SECOND FAINT ICA IMAGE
CYG 807-809	21 22 12	36 16 11	8.82(1)	BD +39 4453	4	9.2		B-				0.07	1.1	1.3	SECOND FAINT ICA IMAGE
CYG 815-819	21 22 57	34 37 39	7.89(2)	BD +39 4453	4	9.2		B-				0.07	1.1	1.3	SECOND FAINT ICA IMAGE
CYG 876	21 27 26	46 55 40	7.03(1)	BD +39 4453	4	9.2		B-				0.07	1.1	1.3	SECOND FAINT ICA IMAGE
CYG 899-902	21 28 25	38 45 35	8.53(1)	BD +39 4453	4	9.2		B-				0.07	1.1	1.3	SECOND FAINT ICA IMAGE
CYG 901-902	21 28 46	37 9 30	7.66(2)	BD +39 4453	4	9.2		B-				0.07	1.1	1.3	SECOND FAINT ICA IMAGE
CYG 936	21 31 32	45 23 58	8.41(1)	BD +39 4453	4	9.2		B-				0.07	1.1	1.3	SECOND FAINT ICA IMAGE
CYG 937	21 31 32	45 23 58	8.41(1)	BD +39 4453	4	9.2		B-				0.07	1.1	1.3	SECOND FAINT ICA IMAGE
CYG 1078	21 43 5	29 18 31	7.55(1)	BD +39 4453	4	9.2		B-				0.07	1.1	1.3	SECOND FAINT ICA IMAGE
CYG 1145	21 48 42	29 52 36	8.69(1)	BD +39 4453	4	9.2		B-				0.07	1.1	1.3	SECOND FAINT ICA IMAGE
CAP 21-22	20 54 50	-14 35 54	8.91(2)	BD +39 4453	4	9.2		B-				0.07	1.1	1.3	SECOND FAINT ICA IMAGE
CAP 77-78	21 14 18	-7 37 21	7.67(2)	BD +39 4453	4	9.2		B-				0.07	1.1	1.3	SECOND FAINT ICA IMAGE
CAP 115-116	21 27 33	-19 35 40	8.95(2)	BD +39 4453	4	9.2		B-				0.07	1.1	1.3	SECOND FAINT ICA IMAGE
CAP 124-125	21 33 16	-18 0 31	8.79(1)	BD +39 4453	4	9.2		B-				0.07	1.1	1.3	SECOND FAINT ICA IMAGE
CET 12-17	2 34 16	-9 5 22	8.59(2)	BD +39 4453	4	9.2		B-				0.07	1.1	1.3	SECOND FAINT ICA IMAGE
CET 22-23	2 34 16	-9 5 22	8.59(2)	BD +39 4453	4	9.2		B-				0.07	1.1	1.3	SECOND FAINT ICA IMAGE
CET 37-41	2 50 47	-20 26 20	7.52(2)	BD +39 4453	4	9.2		B-				0.07	1.1	1.3	SECOND FAINT ICA IMAGE
GRU 75-76	23 31 14	-47 32 15	8.45(2)	BD +39 4453	4	9.2		B-				0.07	1.1	1.3	SECOND FAINT ICA IMAGE
GRU 104-110	23 41 45	-34 46 5	7.18(2)	BD +39 4453	4	9.2		B-				0.07	1.1	1.3	SECOND FAINT ICA IMAGE
PAV 48	21 31 32	-45 12 9	8.85(1)	BD +39 4453	4	9.2		B-				0.07	1.1	1.3	SECOND FAINT ICA IMAGE
PAV 61	21 42 13	-52 33 10	7.49(1)	BD +39 4453	4	9.2		B-				0.07	1.1	1.3	SECOND FAINT ICA IMAGE
PAV 62	21 42 13	-52 33 10	7.49(1)	BD +39 4453	4	9.2		B-				0.07	1.1	1.3	SECOND FAINT ICA IMAGE
PAV 63	21 42 13	-52 33 10	7.49(1)	BD +39 4453	4	9.2		B-				0.07	1.1	1.3	SECOND FAINT ICA IMAGE
PAV 64	21 42 13	-52 33 10	7.49(1)	BD +39 4453	4	9.2		B-				0.07	1.1	1.3	SECOND FAINT ICA IMAGE
PAV 65	21 42 13	-52 33 10	7.49(1)	BD +39 4453	4	9.2		B-				0.07	1.1	1.3	SECOND FAINT ICA IMAGE
PAV 66	21 42 13	-52 33 10	7.49(1)	BD +39 4453	4	9.2		B-				0.07	1.1	1.3	SECOND FAINT ICA IMAGE
PAV 67	21 42 13	-52 33 10	7.49(1)	BD +39 4453	4	9.2		B-				0.07	1.1	1.3	SECOND FAINT ICA IMAGE
PAV 68	21 42 13	-52 33 10	7.49(1)	BD +39 4453	4	9.2		B-				0.07	1.1	1.3	SECOND FAINT ICA IMAGE
PAV 69	21 42 13	-52 33 10	7.49(1)	BD +39 4453	4	9.2		B-				0.07	1.1	1.3	SECOND FAINT ICA IMAGE
PAV 70	21 42 13	-52 33 10	7.49(1)	BD +39 4453	4	9.2		B-				0.07	1.1	1.3	SECOND FAINT ICA IMAGE
PAV 71	21 42 13	-52 33 10	7.49(1)	BD +39 4453	4	9.2		B-				0.07	1.1	1.3	SECOND FAINT ICA IMAGE
PAV 72	21 42 13	-52 33 10	7.49(1)	BD +39 4453	4	9.2		B-				0.07	1.1	1.3	SECOND FAINT ICA IMAGE
PAV 73	21 42 13	-52 33 10	7.49(1)	BD +39 4453	4	9.2		B-				0.07	1.1	1.3	SECOND FAINT ICA IMAGE
PAV 74	21 42 13	-52 33 10	7.49(1)	BD +39 4453	4	9.2		B-				0.07	1.1	1.3	SECOND FAINT ICA IMAGE
PAV 75	21 42 13	-52 33 10	7.49(1)	BD +39 4453	4	9.2		B-				0.07	1.1	1.3	SECOND FAINT ICA IMAGE
PAV 76	21 42 13	-52 33 10	7.49(1)	BD +39 4453	4	9.2		B-				0.07	1.1	1.3	SECOND FAINT ICA IMAGE
PAV 77	21 42 13	-52 33 10	7.49(1)	BD +39 4453	4	9.2		B-				0.07	1.1	1.3	SECOND FAINT ICA IMAGE
PAV 78	21 42 13	-52 33 10	7.49(1)	BD +39 4453	4	9.2		B-				0.07	1.1	1.3	SECOND FAINT ICA IMAGE
PAV 79	21 42 13	-52 33 10	7.49(1)	BD +39 4453	4	9.2		B-				0.07	1.1	1.3	SECOND FAINT ICA IMAGE
PAV 80	21 42 13	-52 33 10	7.49(1)	BD +39 4453	4	9.2		B-				0.07	1.1	1.3	SECOND FAINT ICA IMAGE
PAV 81	21 42 13	-52 33 10	7.49(1)	BD +39 4453	4	9.2		B-				0.07	1.1	1.3	SECOND FAINT ICA IMAGE
PAV 82	21 42 13	-52 33 10	7.49(1)	BD +39 4453	4	9.2		B-				0.07	1.1	1.3	SECOND FAINT ICA IMAGE
PAV 83	21 42 13	-52 33 10	7.49(1)	BD +39 4453	4	9.2		B-				0.07	1.1	1.3	SECOND FAINT ICA IMAGE
PAV 84	21 42 13	-52 33 10	7.49(1)	BD +39 4453	4	9.2		B-				0.07	1.1	1.3	SECOND FAINT ICA IMAGE
PAV 85	21 42 13	-52 33 10	7.49(1)	BD +39 4453	4	9.2		B-				0.07	1.1	1.3	SECOND FAINT ICA IMAGE
PAV 86	21 42 13	-52 33 10	7.49(1)	BD +39 4453	4	9.2		B-				0.07	1.1	1.3	SECOND FAINT ICA IMAGE
PAV 87	21 42 13	-52 33 10	7.49(1)	BD +39 4453	4	9.2		B-				0.07	1.1	1.3	SECOND FAINT ICA IMAGE
PAV 88	21 42 13	-52 33 10	7.49(1)	BD +39 4453	4	9.2		B-				0.07	1.1	1.3	SECOND FAINT ICA IMAGE
PAV 89	21 42 13	-52 33 10	7.49(1)	BD +39 4453	4	9.2		B-				0.07	1.1	1.3	SECOND FAINT ICA IMAGE
PAV 90	21 42 13	-52 33 10	7.49(1)	BD +39 4453	4	9.2		B-				0.07	1.1	1.3	SECOND FAINT ICA IMAGE
PAV 91	21 42 13	-52 33 10	7.49(1)	BD +39 4453	4	9.2		B-				0.07	1.1	1.3	SECOND FAINT ICA IMAGE
PAV 92	21 42 13	-52 33 10	7.49(1)	BD +39 4453	4	9.2		B-				0.07	1.1	1.3	SECOND FAINT ICA IMAGE
PAV 93	21 42 13	-52 33 10	7.49(1)	BD +39 4453	4	9.2		B-				0.07	1.1	1.3	SECOND FAINT ICA IMAGE
PAV 94	21 42 13	-52 33 10	7.49(1)	BD +39 4453	4	9.2		B-				0.07	1.1	1.3	SECOND FAINT ICA IMAGE
PAV 95	21 42 13	-52 33 10	7.49(1)	BD +39 4453	4	9.2		B-				0.07	1.1	1.3	SECOND FAINT ICA IMAGE
PAV 96	21 42 13	-52 33 10	7.49(1)	BD +39 4453	4	9.2		B-				0.07	1.1	1.3	SECOND FAINT ICA IMAGE
PAV 97	21 42 13	-52 33 10	7.49(1)	BD +39 4453	4	9.2		B-				0.07	1.1	1.3	SECOND FAINT ICA IMAGE
PAV 98	21 42 13	-52 33 10	7.49(1)	BD +39 4453	4	9.2		B-				0.07	1.1	1.3	SECOND FAINT ICA IMAGE
PAV 99	21 42 13	-52 33 10	7.49(1)	BD +39 4453	4	9.2		B-				0.07	1.1	1.3	SECOND FAINT ICA IMAGE
PAV 100	21 42 13	-52 33 10	7.49(1)	BD +39 4453	4	9.2		B-				0.07	1.1	1.3	SECOND FAINT ICA IMAGE
PAV 101	21 42 13	-52 33 10	7.49(1)	BD +39 4453	4	9.2		B-				0.07	1.1	1.3	SECOND FAINT ICA IMAGE
PAV 102	21 42 13	-52 33 10	7.49(1)	BD +39 4453	4	9.2		B-				0.07	1.1	1.3	SECOND FAINT ICA IMAGE
PAV 103	21 42 13	-52 33 10	7.49(1)	BD +39 4453	4	9.2		B-				0.07	1.1	1.3	SECOND FAINT ICA IMAGE
PAV 104	21 42 13	-52 33 10	7.49(1)	BD +39 4453	4	9.2		B-				0.07	1.1	1.3	SECOND FAINT ICA IMAGE
PAV 105	21 42 13	-52 33 10	7.49(1)	BD +39 4453	4	9.2		B-				0.07	1.1	1.3	SECOND FAINT ICA IMAGE
PAV 106	21 42 13	-52 33 10	7.49(1)	BD +39 4453	4	9.2		B-				0.07	1.1	1.3	SECOND FAINT ICA IMAGE



Table 2 — Positions and UV Magnitudes of Non-SAO Objects (NOS) and Possible identifications

OBJECT NUMBER	RA (1950) DEC	UV-MAGNITUDE $m_{\text{c}}$	POSSIBLE IDENT.	CODE	$m_{\text{b}}$	$m_{\text{v}}$	SD	V	B-V	U-B	MR	SP	CL	$\Delta$	RA	DEC	DIST	REMARKS
MEM 57-52	4 56 0 -78 31 20	8.31(2)	HD 29555	5	9.0	8.9	A0							0.54	-31.0	5.5	CPD-78	147
MEM 57-53	4 57 1 -78 34 50	9.13(2)																
MEM 57-54	4 57 1 -78 34 50	9.13(2)																
MEM 57-55	4 59 8 -78 40 22	8.63(2)																
MEM 57-56	5 7 17 -79 40 13	9.40(1)	HD 34218	5	9.4	9.3	B9							0.45	-2.9	5.2	CPD-79	108/SECOND FAINT ICA IMAGE
MEM 57-57	5 14 8 -77 16 21	9.02(2)																
MEM 57-58	5 19 4 -75 17 24	9.71(1)																
MEM 57-59	5 24 53 -77 35 41	7.77(1)																
MEM 57-60	5 26 50 -79 37 50	8.42(1)																
MEM 57-61	5 31 53 -79 17 7	9.47(2)																
MEM 57-62	5 34 9 -79 10 40	9.67(1)																
MEM 57-63	5 47 42 -75 2 17	7.55(2)	HD 42428	1	11.0	10.9	A0							0.65	-4.8	5.3	CPD-76	368
MEM 57-64	5 56 29 -83 3 42	9.54(1)	HD 42604	3	9.7	9.7	A2							0.46	1.9	3.5	CPD-65	553
MEM 57-65	6 1 10 -78 6 47	7.77(2)																
MEM 57-66	6 13 32 -78 11 27	9.58(1)																
MEM 57-67	6 23 51 -76 34 50	8.47(1)	HD 46630	4	8.5	8.4	A0							0.26	-0.1	1.2	CPD-71	446
MEM 57-68	6 28 45 -71 59 32	9.21(2)	SAO 256305	4	9.4	9.3	A0							0.51	-0.3	2.2	HD 46608/CPD-73	382
MEM 57-69	6 30 57 -68 52 50	7.41(1)	SAO 256305	4	9.7	7.8	B9							0.18	2.1	2.3	HD 46776/CPD-68	532
MEM 57-70	6 37 34 -70 52 26	7.38(1)	SAO 256305	4	8.2	8.2	A0							0.14	-0.1	0.7	HD 46816/CPD-70	542
MEM 57-71	6 41 1 -68 31 0	7.71(1)	HD 49339	3	8.8	8.8	B9							0.43	2.0	3.1	CPD-68	556
MEM 57-72	6 43 17 -65 36 56	6.31(2)	HD 49103	1	8.7	8.8	B9							1.02	4.5	7.8	CPD-65	648/105 06421-6539 AB
MEM 57-73	6 43 32 -69 15 5	8.15(2)	SAO 249034	4	8.9	8.8	B8							0.09	1.6	1.7	HD 49531/CPD-69	652
MEM 57-74	6 44 7 -66 23 17	7.79(1)	HD 49424	1	8.0	8.0	B9							0.88	3.6	6.4	CPD-66	594
MEM 57-75	6 44 54 -67 36 21	9.34(2)	SAO 249037	3	8.9	8.9	B9							0.56	2.6	4.1	HD 49692/CPD-67	650
MEM 57-76	6 49 26 -68 0 15	7.90(1)																
MEM 57-77	6 51 54 -76 45 20	7.48(2)																
MEM 57-78	6 50 51 -75 46 38	7.96(2)																
MEM 57-79	6 58 13 -76 29 4	8.87(2)	CPD-71	508	4	10.6	10.5	B8						0.21	-0.9	1.4		
MEM 57-80	6 58 26 -71 36 20	8.11(1)																
MEM 57-81	6 58 31 -69 17 5	9.22(2)																
MEM 57-82	6 58 38 -72 51 2	6.98(2)																
MEM 57-83	7 0 8 -75 22 32	7.84(1)																
MEM 57-84	7 0 17 -76 54 48	7.63(2)																
MEM 57-85	7 2 21 -76 29 45	7.26(2)																
MEM 57-86	7 3 46 -76 27 50	7.50(2)																
MEM 57-87	7 4 26 -76 20 23	7.98(1)																
MEM 57-88	7 8 27 -72 40 33	7.89(1)																
MEM 57-89	7 11 7 -76 43 55	8.34(1)																
MEM 57-90	7 13 12 -68 19 9	8.99(2)	HD 57556	1	10.5	9.9	A5							-2.27	4.1	8.3	CPD-77	301/SECOND FAINT ICA IMAGE
MEM 57-91	7 14 15 -77 1 47	9.65(1)	HD 57923	1			A3							-2.02	-4.2	8.0	SECOND FAINT ICA IMAGE	
MEM 57-92	7 14 25 -77 6 48	6.35(1)												-1.39	-2.7	5.5		
MEM 57-93	7 14 52 -77 0 17	8.54(1)	HD 57923	1			A3							-1.07	-5.5	6.6		
MEM 57-94	7 15 12 -77 3 5	7.41(2)	HD 57923	1			A3							0.69	0.6	2.3	CPD-77	302
MEM 57-95	7 15 37 -77 39 48	7.89(2)	HD 57923	1			A3							1.31	2.3	4.8	CPD-77	301
MEM 57-96	7 15 37 -77 39 48	7.89(2)	HD 57923	3	10.5	9.9	A5											
MEM 57-97	7 15 42 -77 39 57	7.34(2)	HD 57697	1	9.7	9.6	B5							2.27	4.8	8.7	CPD-77	302
MEM 57-98	7 17 12 -77 35 39	7.98(1)	HD 57697	1	9.7	9.6	B5							1.10	-2.3	4.3		
MEM 57-99	7 17 21 -76 59 50	9.06(2)	HD 57923	3			A3											
MEM 57-100	7 19 0 -77 27 9	7.70(2)																
MEM 57-101	7 20 3 -77 30 42	7.59(2)																

(Table continues.)

**Table 2 — Positions and UV Magnitudes of Non-SAO Objects (NOs) and Possible identifications**

[illegible]

(Table continues.)

Table 2 — Positions and UV Magnitudes of Non-SAO Objects (NOs) and Possible identifications

OBJECT NUMBER	RA (1950)	DEC	UV-MAGNITUDE m <sub>u</sub>	POSSIBLE IDENT.	CODE	m <sub>v</sub>	SO.	V	B-V	U-B	MK Spect.	Δ	Δ <sub>2</sub>	Δ <sub>3</sub>	Δ <sub>4</sub>	Δ <sub>5</sub>	Δ <sub>6</sub>	Δ <sub>7</sub>	Δ <sub>8</sub>	Δ <sub>9</sub>	Δ <sub>10</sub>	Δ <sub>11</sub>	Δ <sub>12</sub>	Δ <sub>13</sub>	Δ <sub>14</sub>	Δ <sub>15</sub>	Δ <sub>16</sub>	Δ <sub>17</sub>	Δ <sub>18</sub>	Δ <sub>19</sub>	Δ <sub>20</sub>	Δ <sub>21</sub>	Δ <sub>22</sub>	Δ <sub>23</sub>	Δ <sub>24</sub>	Δ <sub>25</sub>	Δ <sub>26</sub>	Δ <sub>27</sub>	Δ <sub>28</sub>	Δ <sub>29</sub>	Δ <sub>30</sub>	Δ <sub>31</sub>	Δ <sub>32</sub>	Δ <sub>33</sub>	Δ <sub>34</sub>	Δ <sub>35</sub>	Δ <sub>36</sub>	Δ <sub>37</sub>	Δ <sub>38</sub>	Δ <sub>39</sub>	Δ <sub>40</sub>	Δ <sub>41</sub>	Δ <sub>42</sub>	Δ <sub>43</sub>	Δ <sub>44</sub>	Δ <sub>45</sub>	Δ <sub>46</sub>	Δ <sub>47</sub>	Δ <sub>48</sub>	Δ <sub>49</sub>	Δ <sub>50</sub>	Δ <sub>51</sub>	Δ <sub>52</sub>	Δ <sub>53</sub>	Δ <sub>54</sub>	Δ <sub>55</sub>	Δ <sub>56</sub>	Δ <sub>57</sub>	Δ <sub>58</sub>	Δ <sub>59</sub>	Δ <sub>60</sub>	Δ <sub>61</sub>	Δ <sub>62</sub>	Δ <sub>63</sub>	Δ <sub>64</sub>	Δ <sub>65</sub>	Δ <sub>66</sub>	Δ <sub>67</sub>	Δ <sub>68</sub>	Δ <sub>69</sub>	Δ <sub>70</sub>	Δ <sub>71</sub>	Δ <sub>72</sub>	Δ <sub>73</sub>	Δ <sub>74</sub>	Δ <sub>75</sub>	Δ <sub>76</sub>	Δ <sub>77</sub>	Δ <sub>78</sub>	Δ <sub>79</sub>	Δ <sub>80</sub>	Δ <sub>81</sub>	Δ <sub>82</sub>	Δ <sub>83</sub>	Δ <sub>84</sub>	Δ <sub>85</sub>	Δ <sub>86</sub>	Δ <sub>87</sub>	Δ <sub>88</sub>	Δ <sub>89</sub>	Δ <sub>90</sub>	Δ <sub>91</sub>	Δ <sub>92</sub>	Δ <sub>93</sub>	Δ <sub>94</sub>	Δ <sub>95</sub>	Δ <sub>96</sub>	Δ <sub>97</sub>	Δ <sub>98</sub>	Δ <sub>99</sub>	Δ <sub>100</sub>	Δ <sub>101</sub>	Δ <sub>102</sub>	Δ <sub>103</sub>	Δ <sub>104</sub>	Δ <sub>105</sub>	Δ <sub>106</sub>	Δ <sub>107</sub>	Δ <sub>108</sub>	Δ <sub>109</sub>	Δ <sub>110</sub>	Δ <sub>111</sub>	Δ <sub>112</sub>	Δ <sub>113</sub>	Δ <sub>114</sub>	Δ <sub>115</sub>	Δ <sub>116</sub>	Δ <sub>117</sub>	Δ <sub>118</sub>	Δ <sub>119</sub>	Δ <sub>120</sub>	Δ <sub>121</sub>	Δ <sub>122</sub>	Δ <sub>123</sub>	Δ <sub>124</sub>	Δ <sub>125</sub>	Δ <sub>126</sub>	Δ <sub>127</sub>	Δ <sub>128</sub>	Δ <sub>129</sub>	Δ <sub>130</sub>	Δ <sub>131</sub>	Δ <sub>132</sub>	Δ <sub>133</sub>	Δ <sub>134</sub>	Δ <sub>135</sub>	Δ <sub>136</sub>	Δ <sub>137</sub>	Δ <sub>138</sub>	Δ <sub>139</sub>	Δ <sub>140</sub>	Δ <sub>141</sub>	Δ <sub>142</sub>	Δ <sub>143</sub>	Δ <sub>144</sub>	Δ <sub>145</sub>	Δ <sub>146</sub>	Δ <sub>147</sub>	Δ <sub>148</sub>	Δ <sub>149</sub>	Δ <sub>150</sub>	Δ <sub>151</sub>	Δ <sub>152</sub>	Δ <sub>153</sub>	Δ <sub>154</sub>	Δ <sub>155</sub>	Δ <sub>156</sub>	Δ <sub>157</sub>	Δ <sub>158</sub>	Δ <sub>159</sub>	Δ <sub>160</sub>	Δ <sub>161</sub>	Δ <sub>162</sub>	Δ <sub>163</sub>	Δ <sub>164</sub>	Δ <sub>165</sub>	Δ <sub>166</sub>	Δ <sub>167</sub>	Δ <sub>168</sub>	Δ <sub>169</sub>	Δ <sub>170</sub>	Δ <sub>171</sub>	Δ <sub>172</sub>	Δ <sub>173</sub>	Δ <sub>174</sub>	Δ <sub>175</sub>	Δ <sub>176</sub>	Δ <sub>177</sub>	Δ <sub>178</sub>	Δ <sub>179</sub>	Δ <sub>180</sub>	Δ <sub>181</sub>	Δ <sub>182</sub>	Δ <sub>183</sub>	Δ <sub>184</sub>	Δ <sub>185</sub>	Δ <sub>186</sub>	Δ <sub>187</sub>	Δ <sub>188</sub>	Δ <sub>189</sub>	Δ <sub>190</sub>	Δ <sub>191</sub>	Δ <sub>192</sub>	Δ <sub>193</sub>	Δ <sub>194</sub>	Δ <sub>195</sub>	Δ <sub>196</sub>	Δ <sub>197</sub>	Δ <sub>198</sub>	Δ <sub>199</sub>	Δ <sub>200</sub>	Δ <sub>201</sub>	Δ <sub>202</sub>	Δ <sub>203</sub>	Δ <sub>204</sub>	Δ <sub>205</sub>	Δ <sub>206</sub>	Δ <sub>207</sub>	Δ <sub>208</sub>	Δ <sub>209</sub>	Δ <sub>210</sub>	Δ <sub>211</sub>	Δ <sub>212</sub>	Δ <sub>213</sub>	Δ <sub>214</sub>	Δ <sub>215</sub>	Δ <sub>216</sub>	Δ <sub>217</sub>	Δ <sub>218</sub>	Δ <sub>219</sub>	Δ <sub>220</sub>	Δ <sub>221</sub>	Δ <sub>222</sub>	Δ <sub>223</sub>	Δ <sub>224</sub>	Δ <sub>225</sub>	Δ <sub>226</sub>	Δ <sub>227</sub>	Δ <sub>228</sub>	Δ <sub>229</sub>	Δ <sub>230</sub>	Δ <sub>231</sub>	Δ <sub>232</sub>	Δ <sub>233</sub>	Δ <sub>234</sub>	Δ <sub>235</sub>	Δ <sub>236</sub>	Δ <sub>237</sub>	Δ <sub>238</sub>	Δ <sub>239</sub>	Δ <sub>240</sub>	Δ <sub>241</sub>	Δ <sub>242</sub>	Δ <sub>243</sub>	Δ <sub>244</sub>	Δ <sub>245</sub>	Δ <sub>246</sub>	Δ <sub>247</sub>	Δ <sub>248</sub>	Δ <sub>249</sub>	Δ <sub>250</sub>	Δ <sub>251</sub>	Δ <sub>252</sub>	Δ <sub>253</sub>	Δ <sub>254</sub>	Δ <sub>255</sub>	Δ <sub>256</sub>	Δ <sub>257</sub>	Δ <sub>258</sub>	Δ <sub>259</sub>	Δ <sub>260</sub>	Δ <sub>261</sub>	Δ <sub>262</sub>	Δ <sub>263</sub>	Δ <sub>264</sub>	Δ <sub>265</sub>	Δ <sub>266</sub>	Δ <sub>267</sub>	Δ <sub>268</sub>	Δ <sub>269</sub>	Δ <sub>270</sub>	Δ <sub>271</sub>	Δ <sub>272</sub>	Δ <sub>273</sub>	Δ <sub>274</sub>	Δ <sub>275</sub>	Δ <sub>276</sub>	Δ <sub>277</sub>	Δ <sub>278</sub>	Δ <sub>279</sub>	Δ <sub>280</sub>	Δ <sub>281</sub>	Δ <sub>282</sub>	Δ <sub>283</sub>	Δ <sub>284</sub>	Δ <sub>285</sub>	Δ <sub>286</sub>	Δ <sub>287</sub>	Δ <sub>288</sub>	Δ <sub>289</sub>	Δ <sub>290</sub>	Δ <sub>291</sub>	Δ <sub>292</sub>	Δ <sub>293</sub>	Δ <sub>294</sub>	Δ <sub>295</sub>	Δ <sub>296</sub>	Δ <sub>297</sub>	Δ <sub>298</sub>	Δ <sub>299</sub>	Δ <sub>300</sub>	Δ <sub>301</sub>	Δ <sub>302</sub>	Δ <sub>303</sub>	Δ <sub>304</sub>	Δ <sub>305</sub>	Δ <sub>306</sub>	Δ <sub>307</sub>	Δ <sub>308</sub>	Δ <sub>309</sub>	Δ <sub>310</sub>	Δ <sub>311</sub>	Δ <sub>312</sub>	Δ <sub>313</sub>	Δ <sub>314</sub>	Δ <sub>315</sub>	Δ <sub>316</sub>	Δ <sub>317</sub>	Δ <sub>318</sub>	Δ <sub>319</sub>	Δ <sub>320</sub>	Δ <sub>321</sub>	Δ <sub>322</sub>	Δ <sub>323</sub>	Δ <sub>324</sub>	Δ <sub>325</sub>	Δ <sub>326</sub>	Δ <sub>327</sub>	Δ <sub>328</sub>	Δ <sub>329</sub>	Δ <sub>330</sub>	Δ <sub>331</sub>	Δ <sub>332</sub>	Δ <sub>333</sub>	Δ <sub>334</sub>	Δ <sub>335</sub>	Δ <sub>336</sub>	Δ <sub>337</sub>	Δ <sub>338</sub>	Δ <sub>339</sub>	Δ <sub>340</sub>	Δ <sub>341</sub>	Δ <sub>342</sub>	Δ <sub>343</sub>	Δ <sub>344</sub>	Δ <sub>345</sub>	Δ <sub>346</sub>	Δ <sub>347</sub>	Δ <sub>348</sub>	Δ <sub>349</sub>	Δ <sub>350</sub>	Δ <sub>351</sub>	Δ <sub>352</sub>	Δ <sub>353</sub>	Δ <sub>354</sub>	Δ <sub>355</sub>	Δ <sub>356</sub>	Δ <sub>357</sub>	Δ <sub>358</sub>	Δ <sub>359</sub>	Δ <sub>360</sub>	Δ <sub>361</sub>	Δ <sub>362</sub>	Δ <sub>363</sub>	Δ <sub>364</sub>	Δ <sub>365</sub>	Δ <sub>366</sub>	Δ <sub>367</sub>	Δ <sub>368</sub>	Δ <sub>369</sub>	Δ <sub>370</sub>	Δ <sub>371</sub>	Δ <sub>372</sub>	Δ <sub>373</sub>	Δ <sub>374</sub>	Δ <sub>375</sub>	Δ <sub>376</sub>	Δ <sub>377</sub>	Δ <sub>378</sub>	Δ <sub>379</sub>	Δ <sub>380</sub>	Δ <sub>381</sub>	Δ <sub>382</sub>	Δ <sub>383</sub>	Δ <sub>384</sub>	Δ <sub>385</sub>	Δ <sub>386</sub>	Δ <sub>387</sub>	Δ <sub>388</sub>	Δ <sub>389</sub>	Δ <sub>390</sub>	Δ <sub>391</sub>	Δ <sub>392</sub>	Δ <sub>393</sub>	Δ <sub>394</sub>	Δ <sub>395</sub>	Δ <sub>396</sub>	Δ <sub>397</sub>	Δ <sub>398</sub>	Δ <sub>399</sub>	Δ <sub>400</sub>	Δ <sub>401</sub>	Δ <sub>402</sub>	Δ <sub>403</sub>	Δ <sub>404</sub>	Δ <sub>405</sub>	Δ <sub>406</sub>	Δ <sub>407</sub>	Δ <sub>408</sub>	Δ <sub>409</sub>	Δ <sub>410</sub>	Δ <sub>411</sub>	Δ <sub>412</sub>	Δ <sub>413</sub>	Δ <sub>414</sub>	Δ <sub>415</sub>	Δ <sub>416</sub>	Δ <sub>417</sub>	Δ <sub>418</sub>	Δ <sub>419</sub>	Δ <sub>420</sub>	Δ <sub>421</sub>	Δ <sub>422</sub>	Δ <sub>423</sub>	Δ <sub>424</sub>	Δ <sub>425</sub>	Δ <sub>426</sub>	Δ <sub>427</sub>	Δ <sub>428</sub>	Δ <sub>429</sub>	Δ <sub>430</sub>	Δ <sub>431</sub>	Δ <sub>432</sub>	Δ <sub>433</sub>	Δ <sub>434</sub>	Δ <sub>435</sub>	Δ <sub>436</sub>	Δ <sub>437</sub>	Δ <sub>438</sub>	Δ <sub>439</sub>	Δ <sub>440</sub>	Δ <sub>441</sub>	Δ <sub>442</sub>	Δ <sub>443</sub>	Δ <sub>444</sub>	Δ <sub>445</sub>	Δ <sub>446</sub>	Δ <sub>447</sub>	Δ <sub>448</sub>	Δ <sub>449</sub>	Δ <sub>450</sub>	Δ <sub>451</sub>	Δ <sub>452</sub>	Δ <sub>453</sub>	Δ <sub>454</sub>	Δ <sub>455</sub>	Δ <sub>456</sub>	Δ <sub>457</sub>	Δ <sub>458</sub>	Δ <sub>459</sub>	Δ <sub>460</sub>	Δ <sub>461</sub>	Δ <sub>462</sub>	Δ <sub>463</sub>	Δ <sub>464</sub>	Δ <sub>465</sub>	Δ <sub>466</sub>	Δ <sub>467</sub>	Δ <sub>468</sub>	Δ <sub>469</sub>	Δ <sub>470</sub>	Δ <sub>471</sub>	Δ <sub>472</sub>	Δ <sub>473</sub>	Δ <sub>474</sub>	Δ <sub>475</sub>	Δ <sub>476</sub>	Δ <sub>477</sub>	Δ <sub>478</sub>	Δ <sub>479</sub>	Δ <sub>480</sub>	Δ <sub>481</sub>	Δ <sub>482</sub>	Δ <sub>483</sub>	Δ <sub>484</sub>	Δ <sub>485</sub>	Δ <sub>486</sub>	Δ <sub>487</sub>	Δ <sub>488</sub>	Δ <sub>489</sub>	Δ <sub>490</sub>	Δ <sub>491</sub>	Δ <sub>492</sub>	Δ <sub>493</sub>	Δ <sub>494</sub>	Δ <sub>495</sub>	Δ <sub>496</sub>	Δ <sub>497</sub>	Δ <sub>498</sub>	Δ <sub>499</sub>	Δ <sub>500</sub>	Δ <sub>501</sub>	Δ <sub>502</sub>	Δ <sub>503</sub>	Δ <sub>504</sub>	Δ <sub>505</sub>	Δ <sub>506</sub>	Δ <sub>507</sub>	Δ <sub>508</sub>	Δ <sub>509</sub>	Δ <sub>510</sub>	Δ <sub>511</sub>	Δ <sub>512</sub>	Δ <sub>513</sub>	Δ <sub>514</sub>	Δ <sub>515</sub>	Δ <sub>516</sub>	Δ <sub>517</sub>	Δ <sub>518</sub>	Δ <sub>519</sub>	Δ <sub>520</sub>	Δ <sub>521</sub>	Δ <sub>522</sub>	Δ <sub>523</sub>	Δ <sub>524</sub>	Δ <sub>525</sub>	Δ <sub>526</sub>	Δ <sub>527</sub>	Δ <sub>528</sub>	Δ <sub>529</sub>	Δ <sub>530</sub>	Δ <sub>531</sub>	Δ <sub>532</sub>	Δ <sub>533</sub>	Δ <sub>534</sub>	Δ <sub>535</sub>	Δ <sub>536</sub>	Δ <sub>537</sub>	Δ <sub>538</sub>	Δ <sub>539</sub>	Δ <sub>540</sub>	Δ <sub>541</sub>	Δ <sub>542</sub>	Δ <sub>543</sub>	Δ <sub>544</sub>	Δ <sub>545</sub>	Δ <sub>546</sub>	Δ <sub>547</sub>	Δ <sub>548</sub>	Δ <sub>549</sub>	Δ <sub>550</sub>	Δ <sub>551</sub>	Δ <sub>552</sub>	Δ <sub>553</sub>	Δ <sub>554</sub>	Δ <sub>555</sub>	Δ <sub>556</sub>	Δ <sub>557</sub>	Δ <sub>558</sub>	Δ <sub>559</sub>	Δ <sub>560</sub>	Δ <sub>561</sub>	Δ <sub>562</sub>	Δ <sub>563</sub>	Δ <sub>564</sub>	Δ <sub>565</sub>	Δ <sub>566</sub>	Δ <sub>567</sub>	Δ <sub>568</sub>	Δ <sub>569</sub>	Δ <sub>570</sub>	Δ <sub>571</sub>	Δ <sub>572</sub>	Δ <sub>573</sub>	Δ <sub>574</sub>	Δ <sub>575</sub>	Δ <sub>576</sub>	Δ <sub>577</sub>	Δ <sub>578</sub>	Δ <sub>579</sub>	Δ <sub>580</sub>	Δ <sub>581</sub>	Δ <sub>582</sub>	Δ <sub>583</sub>	Δ <sub>584</sub>	Δ <sub>585</sub>	Δ <sub>586</sub>	Δ <sub>587</sub>	Δ <sub>588</sub>	Δ <sub>589</sub>	Δ <sub>590</sub>	Δ <sub>591</sub>	Δ <sub>592</sub>	Δ <sub>593</sub>	Δ <sub>594</sub>	Δ <sub>595</sub>	Δ <sub>596</sub>	Δ <sub>597</sub>	Δ <sub>598</sub>	Δ <sub>599</sub>	Δ <sub>600</sub>	Δ <sub>601</sub>	Δ <sub>602</sub>	Δ <sub>603</sub>	Δ <sub>604</sub>	Δ <sub>605</sub>	Δ <sub>606</sub>	Δ <sub>607</sub>	Δ <sub>608</sub>	Δ <sub>609</sub>	Δ <sub>610</sub>	Δ <sub>611</sub>	Δ <sub>612</sub>	Δ <sub>613</sub>	Δ <sub>614</sub>	Δ <sub>615</sub>	Δ <sub>616</sub>	Δ <sub>617</sub>	Δ <sub>618</sub>	Δ <sub>619</sub>	Δ <sub>620</sub>	Δ <sub>621</sub>	Δ <sub>622</sub>	Δ <sub>623</sub>	Δ <sub>624</sub>	Δ <sub>625</sub>	Δ <sub>626</sub>	Δ <sub>627</sub>	Δ <sub>628</sub>	Δ <sub>629</sub>	Δ <sub>630</sub>	Δ <sub>631</sub>	Δ <sub>632</sub>	Δ <sub>633</sub>	Δ <sub>634</sub>	Δ <sub>635</sub>	Δ <sub>636</sub>	Δ <sub>637</sub>	Δ <sub>638</sub>	Δ <sub>639</sub>	Δ <sub>640</sub>	Δ <sub>641</sub>	Δ <sub>642</sub>	Δ <sub>643</sub>	Δ <sub>644</sub>	Δ <sub>645</sub>	Δ <sub>646</sub>	Δ <sub>647</sub>	Δ <sub>648</sub>	Δ <sub>649</sub>	Δ <sub>650</sub>	Δ <sub>651</sub>	Δ <sub>652</sub>	Δ <sub>653</sub>	Δ <sub>654</sub>	Δ <sub>655</sub>	Δ <sub>656</sub>	Δ <sub>657</sub>	Δ <sub>658</sub>	Δ <sub>659</sub>	Δ <sub>660</sub>	Δ <sub>661</sub>	Δ <sub>662</sub>	Δ <sub>663</sub>	Δ <sub>664</sub>	Δ <sub>665</sub>	Δ <sub>666</sub>	Δ <sub>667</sub>	Δ <sub>668</sub>	Δ <sub>669</sub>	Δ <sub>670</sub>	Δ <sub>671</sub>	Δ <sub>672</sub>	Δ <sub>673</sub>	Δ <sub>674</sub>	Δ <sub>675</sub>	Δ <sub>676</sub>	Δ <sub>677</sub>	Δ <sub>678</sub>	Δ <sub>679</sub>	Δ <sub>680</sub>	Δ <sub>681</sub>	Δ <sub>682</sub>	Δ <sub>683</sub>	Δ <sub>684</sub>	Δ <sub>685</sub>	Δ <sub>686</sub>	Δ <sub>687</sub>	Δ <sub>688</sub>	Δ <sub>689</sub>	Δ <sub>690</sub>	Δ <sub>691</sub>	Δ <sub>692</sub>	Δ <sub>693</sub>	Δ <sub>694</sub>	Δ <sub>695</sub>	Δ <sub>696</sub>	Δ <sub>697</sub>	Δ <sub>698</sub>	Δ <sub>699</sub>	Δ <sub>700</sub>	Δ <sub>701</sub>	Δ <sub>702</sub>	Δ <sub>703</sub>	Δ <sub>704</sub>	Δ <sub>705</sub>	Δ <sub>706</sub>	Δ <sub>707</sub>	Δ <sub>708</sub>	Δ <sub>709</sub>	Δ <sub>710</sub>	Δ <sub>711</sub>	Δ <sub>712</sub>	Δ <sub>713</sub>	Δ <sub>714</sub>	Δ <sub>715</sub>	Δ <sub>716</sub>	Δ <sub>717</sub>	Δ <sub>718</sub>	Δ <sub>719</sub>	Δ <sub>720</sub>	Δ <sub>721</sub>	Δ <sub>722</sub>	Δ <sub>723</sub>	Δ <sub>724</sub>	Δ <sub>725</sub>	Δ <sub>726</sub>	Δ <sub>727</sub>	Δ <sub>728</sub>	Δ <sub>729</sub>	Δ <sub>730</sub>	Δ <sub>731</sub>	Δ <sub>732</sub>	Δ <sub>733</sub>	Δ <sub>734</sub>	Δ <sub>735</sub>	Δ <sub>736</sub>	Δ <sub>737</sub>	Δ <sub>738</sub>	Δ <sub>739</sub>	Δ <sub>740</sub>	Δ <sub>741</sub>	Δ <sub>742</sub>	Δ <sub>743</sub>	Δ <sub>744</sub>	Δ <sub>745</sub>	Δ <sub>746</sub>	Δ <sub>747</sub>	Δ <sub>748</sub>	Δ <sub>749</sub>	Δ <sub>750</sub>	Δ <sub>751</sub>	Δ <sub>752</sub>	Δ <sub>753</sub>	Δ <sub>754</sub>	Δ <sub>755</sub>	Δ <sub>756</sub>	Δ <sub>757</sub>	Δ <sub>758</sub>	Δ <sub>759</sub>	Δ <sub>760</sub>	Δ <sub>761</sub>	Δ <sub>762</sub>	Δ <sub>763</sub>	Δ <sub>764</sub>	Δ <sub>765</sub>	Δ <sub>766</sub>	Δ <sub>767</sub>	Δ <sub>768</sub>	Δ <sub>769</sub>	Δ <sub>770</sub>	Δ <sub>771</sub>	Δ <sub>772</sub>	Δ <sub>773</sub>	Δ <sub>774</sub>	Δ <sub>775</sub>	Δ <sub>776</sub>	Δ <sub>777</sub>	Δ <sub>778</sub>	Δ <sub>779</sub>	Δ <sub>780</sub>	Δ <sub>781</sub>	Δ <sub>782</sub>	Δ <sub>783</sub>	Δ <sub>784</sub>	Δ <sub>785</sub>	Δ <sub>786</sub>	Δ <sub>787</sub>	Δ <sub>788</sub>	Δ <sub>789</sub>	Δ <sub>790</sub>	Δ <sub>791</sub>	Δ <sub>792</sub>	Δ <sub>793</sub>	Δ <sub>794</sub>	Δ <sub>795</sub>	Δ <sub>796</sub>	Δ <sub>797</sub>	Δ <sub>798</sub>	Δ <sub>799</sub>	Δ <sub>800</sub>	Δ <sub>801</sub>	Δ <sub>802</sub>	Δ <sub>803</sub>	Δ <sub>804</sub>	Δ <sub>805</sub>	Δ <sub>806</sub>	Δ <sub>807</sub>	Δ <sub>808</sub>	Δ <sub>809</sub>	Δ <sub>810</sub>	Δ <sub>811</sub>	Δ <sub>812</sub>	Δ <sub>813</sub>	Δ <sub>814</sub>	Δ <sub>815</sub>	Δ <sub>816</sub>	Δ <sub>817</sub>	Δ <sub>818</sub>	Δ <sub>819</sub>	Δ <sub>820</sub>	Δ <sub>821</sub>	Δ <sub>822</sub>	Δ <sub>823</sub>	Δ <sub>824</sub>	Δ <sub>825</sub>	Δ <sub>826</sub>	Δ <sub>827</sub>	Δ <sub>828</sub>	Δ <sub>829</sub>	Δ <sub>830</sub>	Δ <sub>831</sub>	Δ <sub>832</sub>	Δ <sub>833</sub>	Δ <sub>834</sub>	Δ <sub>835</sub>	Δ <sub>836</sub>	Δ <sub>837</sub>	Δ <sub>838</sub>	Δ <sub>839</sub>	Δ <sub>840</sub>	Δ <sub>841</sub>	Δ <sub>842</sub>	Δ <sub>843</sub>	Δ <sub>844</sub>	Δ <sub>845</sub>	Δ <sub>846</sub>	Δ <sub>847</sub>	Δ <sub>848</sub>	Δ <sub>849</sub>	Δ <sub>850</sub>	Δ <sub>851</sub>	Δ <sub>852</sub>	Δ <sub>853</sub>	Δ <sub>854</sub>	Δ <sub>855</sub>	Δ <sub>856</sub>	Δ <sub>857</sub>	Δ <sub>858</sub>	Δ <sub>859</sub>	Δ <sub>860</sub>	Δ <sub>861</sub>	Δ <sub>862</sub>	Δ <sub>863</sub>	Δ <sub>864</sub>	Δ <sub>865</sub>	Δ <sub>866</sub>	Δ <sub>867</sub>	Δ <sub>868</sub>	Δ <sub>869</sub>	Δ <sub>870</sub>	Δ <sub>871</sub>	Δ <sub>872</sub>	Δ <sub>873</sub>	Δ <sub>874</sub>	Δ <sub>875</sub>	Δ <sub>876</sub>	Δ <sub>877&lt;/</sub>
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Table 2 (Concluded) — Positions and UV-Magnitudes of Non-SAO Objects (NOs) and Possible Identifications

OBJECT NUMBER	RA (1950) DEC	UV-MAGNITUDE L M C	POSSIBLE IDENT.	CODE	M <sub>B</sub>	M <sub>V</sub>	SP.	V	B-V	U-B	MK Spect.	Δ	Δ DEC DIST	REMARKS
SGR W 784-786	18 09 25.8 -30 13 41.8	9.35(1)	HD 166616	4	9.3	9.3	B9					-0.21	0.3 2.6	*CD -36 12334
SGR W 784-786	18 09 26 -30 13 37.2	9.35(1)	HD 166616	4	9.3	9.3	B9					-0.05	-0.9 1.1	*CD -31 15249
SGR W 808-913	18 11 38 -22 49 16	9.08(1)	HD 167115	4	9.0	9.9	B8					-0.11	1.2 2.0	*BD -21 4919
SGR W 812-917	18 11 38 -22 49 49	7.27(2)	HD 167074	4	9.7	9.7	A0					-0.05	-0.5 0.8	*CD -38 12620
SGR W 925-926	18 11 55 -38 15 32	8.31(2)	HD 167613	1	10.5	10.1	A0					-0.04	0.3 0.3	*BD -21 4933
SGR W 972	18 12 49 -24 31 48	9.03(1)	HD 167666	1	9.9	10.1	A0					-0.02	0.4 0.4	*CD -26 13019
SGR W 1033-1035	18 13 52 -21 47 54	6.78(2)	HD 167775	3	9.6	10.4	A0					-0.25	0.2 3.1	*CD -36 12695
SGR W 1124-1126	18 15 4 -26 8 38	7.49(1)	HD 167911	3	9.6	10.4	A0					-0.05	1.9 2.0	*CD -25 13008
SGR W 1140-1142	18 15 16 -34 26 54	7.64(1)	HD 168140	4	9.8	10.5	A0					0.00	0.9 0.9	*CD -37 12468/IDS 18167-3717 AB
SGR W 1154	18 15 51 -23 31 47	7.37(1)	HD 168469	4	8.2	8.3	B9					0.32	2.7 4.7	*CD -37 12463
SGR W 1168-1170	18 16 15 -25 41 7	6.90(1)	HD 168401	3	10.0	9.9	A0					-0.29	5.8 6.7	*CD -39 12520
SGR W 1259-1262	18 16 3 -37 15 25	6.15(1)	HD 168725	1	8.1	8.5	B9					0.20	-4.5 5.1	*CD -39 12532
SGR W 1328-1329	18 19 26 -39 40 11	9.02(2)	HD 168753	1	8.4	8.5	B9					0.45	-2.4 5.7	*CD -39 12532
SGR W 1341	18 19 55 -39 30 30	7.96(1)	HD 168945	1	10.2	10.2	B9					-0.38	-1.5 6.9	*CD -39 12555
SGR W 1348-1349	18 20 10 -39 48 26	8.55(2)	HD 169252	4	10.1	10.2	B2					-0.05	1.1 1.3	*CD -26 13111/LS 4996
SGR W 1380-1391	18 21 1 -26 8 17	7.00(1)	HD 169139	1	10.8	11.0	A0					-0.50	-5.3 8.5	*CD -26 13124/SECOND FAINT IMAGE
SGR W 1403	18 21 13 -27 1 53	6.00(1)	HD 170124	3	11.0	11.0	A0					0.31	1.9 4.5	PLANETARY NEBULA
SGR E 10-17	18 21 33 -25 5 36	8.11(2)	HD 170100	3	9.9	10.3	B9					0.41	-4.0 6.7	*CD -31 15575/IDS 18226-3127 AB
SGR E 39-41	18 22 25 -25 54 5	7.31(1)	HD 170460	3	9.9	10.3	B9					-0.35	1.1 4.6	*CD -31 15613/SECOND FAINT ICA IMAGE
SGR E 79-80	18 23 27 -27 2 37	7.08(1)	HD 172001	4	10.3	9.9	B8					-0.12	-1.2 1.9	*CD -32 14356
SGR E 109-110	18 24 8 -26 5 9	8.73(1)	HD 172318	4	9.9	10.3	A0					0.15	0.6 2.0	*CD -29 15211/ADS 11553 AB
SGR E 171-172	18 26 15 -31 29 21	7.35(1)	HD 172258	4	8.4	8.6	A0					-0.17	-0.6 2.2	*CD -30 16089
SGR E 187-190	18 26 30 -32 15 20	6.70(1)	HD 172700	4	9.9	10.3	B9							
SGR E 238	18 29 37 -31 20 7	7.64(2)	HD 170100	3	9.9	10.3	B9							
SGR E 459-460	18 35 40 -29 31 0	7.64(2)	HD 170460	3	9.9	10.3	B9							
SGR E 461-463	18 35 44 -52 0 47	7.93(3)	HD 172001	4	10.3	9.9	B8							
SGR E 490-491	18 37 27 -29 55 51	8.11(2)	HD 172318	4	9.9	10.3	A0							
SGR E 543-544	18 39 32 -30 26 52	9.18(2)	HD 172700	4	9.9	10.3	B9							
SGR E 545-546	18 39 32 -30 26 52	9.18(2)	HD 172700	4	9.9	10.3	B9							
SGR E 607-608	18 42 84 -39 20 52	8.56(2)	HD 170460	3	9.9	10.3	B9							
SGR E 659-660	18 45 0 -53 16 33	7.40(2)	HD 170460	3	9.9	10.3	B9							
SGR E 695-697	18 48 30 -26 13 31	7.19(1)	HD 172001	4	10.3	9.9	B8							
SGR E 783-784	18 54 11 -29 16 35	8.75(2)	HD 172318	4	9.9	10.3	A0							
SGR E 818-820	18 55 45 -26 55 28	4.40(1)	HD 172318	4	9.9	10.3	A0							
SGR E 866-868	18 57 3 -26 52 16	9.72(2)	HD 172318	4	9.9	10.3	A0							
SGR E 900	19 0 26 -37 0 21	6.17(1)	HD 172700	4	9.9	10.3	B9							
SGR E 1005-1006	19 8 24 -26 50 18	6.90(2)	HD 172700	4	9.9	10.3	B9							
SGR E 1009-1011	19 8 52 -27 38 57	7.59(2)	HD 172700	4	9.9	10.3	B9							
SGR E 1063-1066	19 12 38 -34 56 49	6.23(1)	HD 179808	1	7.4	7.4	A0					0.34	-2.8 7.1	*CD -35 13331

## Mosaic Printouts

In addition to use of the computer programs discussed in the previous section, an alternate method of data analysis was to obtain printouts of the density  $D$ , with or without nonlinearity correction and with or without smoothing, at each position  $(x, y)$ . This method, particularly when the unsmoothed data are used, provides the maximum information available from any graphical method of displaying the data; however, it is rather unwieldy except for examination of small areas of an image. It is particularly useful for accurate determinations of brightness distributions in star images and other images of small angular extent or when the maximum angular resolution must be retained.

As will be discussed later, if the approximate location of a faint object of interest is known, manual inspection of such mosaic printouts allows much more sensitive detection of objects, and more accurate measurements of the density-volumes, than is possible with the STAR DETECTION program (which does not detect images unless their densities are more than 0.2D above background).

## Density-Volume Corrections

The density-volumes ( $V$ ) as measured using the STAR DETECTION program require three corrections: at low  $V$  a quantity  $T$  must be added to correct for *truncation* of the images at 20 units (0.2D) above background  $B$ ; a correction must be added for the *PDS lag* during the rise from  $B$  to the peak density  $P$ ; and for  $V > 500$  a quantity  $\Delta D$  must be added to correct for the *nonlinear response* of the S201-camera-and-NTB-3-emulsion combination.

Figure 13 illustrates schematically the truncation correction  $T$  for images of different sizes. Many cross sections were drawn from mosaics of the smoothed scan data. The images were found to be nearly circular, roughly approximated by a right circular cone of volume  $(N/3)(P - B)$ . At  $V \leq 400$  the full image radius was 3.5 rasters, and the measured  $V$  was  $20N$  plus a rounded cap somewhat larger than a cone of volume  $(N/3)(P - B - 20)$ , as shown in Fig. 13a. This excess of cap over a cone is called  $\Delta V = V - 20N - (N/3)(P - B - 20)$ , and it was found that, on the average,  $\Delta V = 0.13N(P - B - 20)$  for  $80 < V < 800$ , and  $\Delta V = 100$  for  $800 < V < 3000$ . Then for the faint images the truncation correction is

$$T = \frac{\pi}{3} (3.5)^2 (P - B) - (N/3)(P - B - 20) - 20N, \quad \text{for } V \leq 400, \quad (1)$$

and is relatively large (up to a factor of 3.6 at  $V = 80$ ). (Images with  $N < 4$ , or  $V < 80$ , are not listed in the catalog, because most of them are noise.)

Measured values of  $V$ ,  $N$ , and  $P - B$  for 138 images on frames A26, A27, and A28 (ICa, low background) also show how images grow from  $V = 80$  to  $V$  over 100,000 (in units of 0.01D times raster squared, where 1 raster =  $33 \mu\text{m}$ ). There is some scatter, but most of the values fall within 20% of the mean curves of  $N$  versus  $V$  and  $(P - B)$  versus  $V$  (values from these curves being listed in the first three columns of Table 3).

The image cross sections show that for  $V > 1000$  there is usually a wing or skirt extending several rasters beyond the measured image edge, as shown in Fig. 13d. This was fitted fairly well by extending a cone of height  $H$  beyond the measured image edge. Then the truncation correction is the volume of the  $H$ -cone rim, or

$$T = (N/3)H^3/(H - 20)^2 - (N/3)(H - 20) - 20N, \quad \text{for } V > 400. \quad (2)$$

Values of  $H$  obtained from cross sections were plotted against  $V$ , and values of the resulting smoothed relation are listed in Table 3. At low  $V$ ,  $H$  is nearly equal to  $P - B$ . In the range  $V = 1000$  to 15,000,  $H$  remains near 60, and  $P - B$  climbs to 350. In the large overexposed images,  $H$  reapproaches  $P - B$ .

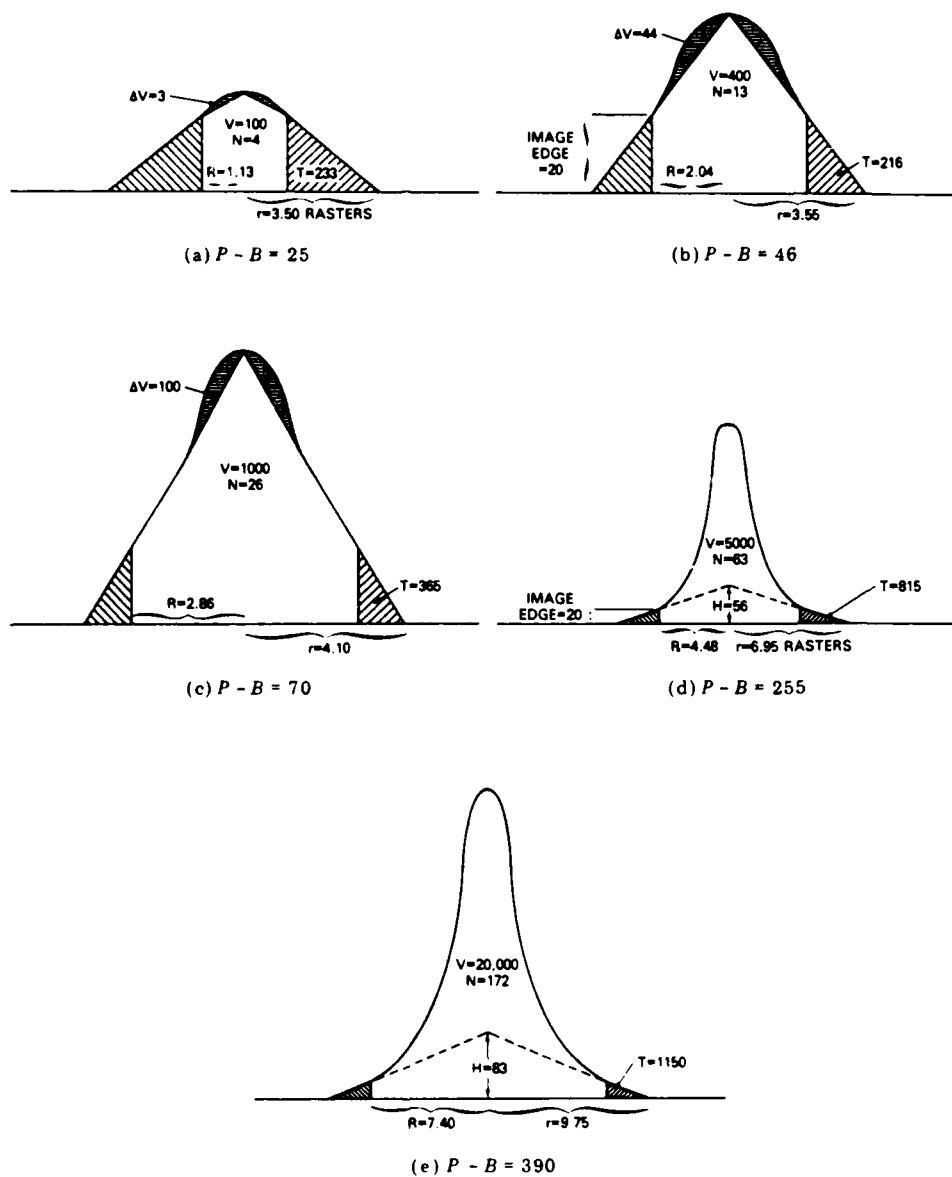


Fig. 13 — Correction to the measured density-volume for image truncation (due to the PDS scan speed and the emulsion/microdensitometer nonlinear response): (a)  $P - B = 25$ , (b)  $P - B = 46$ , (c)  $P - B = 70$ , (d)  $P - B = 255$ , and (e)  $P - B = 390$

Table 3 — Truncation Corrections\* to S201 Density Volumes

$V$	$N$	$P - B$	$H$	$T$	$(V + T)/V$	$\log (V + T)/V$
80	3.5	22	25	210	3.62	0.559
100	4	25	27	233	3.33	0.522
150	6	30	31	244	2.63	0.420
200	7.5	34	34	250	2.25	0.353
300	10	40	40	245	1.82	0.260
400	13	46	46	242	1.605	0.206
500	15	49	49	245	1.51	0.180
600	17	54	52	265	1.44	0.160
700	20	58	53	295	1.42	0.152
800	22	62	53	320	1.40	0.147
900	24	64	54	345	1.385	0.142
1000	26	70	54	365	1.365	0.136
1200	28	78	54	395	1.33	0.125
1400	30	90	55	420	1.30	0.115
1600	32	105	55	440	1.275	0.106
1800	33	122	56	430	1.24	0.093
2000	34	140	56	420	1.21	0.084
2500	38	165	56	520	1.207	0.082
3000	44	190	56	580	1.19	0.077
4000	52	225	56	680	1.17	0.069
5000	63	255	56	800	1.16	0.066
6000	72	285	58	820	1.136	0.056
8000	87	315	64	910	1.113	0.047
10000	103	345	67	1000	1.100	0.042
12000	118	365	70	1100	1.090	0.038
15000	137	375	75	1120	1.074	0.032
20000	172	390	88	1150	1.053	0.024
25000	207	405	96	1200	1.048	0.021
30000	240	410	104	1200	1.040	0.018
40000	300	415	131	1200	1.030	0.014
50000	365	420	200	900	1.016	0.008
60000	430	425	311	600	1.010	0.004
80000	525	440	420	400	1.005	0.003
100000	715	455	455	100	1.001	0.000

\* $V$  = density volume of an identified star image in units of 0.01D square raster;

$N$  = number of points (pixels) with density 20 (0.2D) above background B;

$P - B$  = peak density above background in units of 0.01D;

$H$  = height of "wing cone" (see Figs. 12d and 12e);

$T$  = correction for truncation in the STAR DETECTION program.

Although uncertainties in  $H$  and  $T$  are fairly large, the ratio  $T/V$  drops off rapidly, as shown in Table 3, and the uncertainty in  $\log [(V + T)/V]$  for  $V > 400$  is estimated to be less than 0.05 (less than 0.02 for  $V > 20,000$ ).

The PDS lag correction  $\Delta\Delta$  and the linearizing correction  $\Delta D$  are listed in Table 4 as functions of  $P - B$  and  $P$  respectively. The PDS lag correction  $\Delta\Delta$  was obtained from a speed test on four star images of different peak densities. The linearizing correction  $\Delta D$  was obtained by measuring uniform geocorona densities on three frames, A40, A41, and A42 (1-, 3-, and 10-min ILi exposures), and up to

Table 4 — Corrections to Peak Densities  $P$  for PDS Lag  $\Delta\Delta$  and Linearization  $\Delta D$ \*

$P - B$	$\Delta\Delta$	$P$	$\Delta D$
50	0	50	0
100	0	100	0
150	0	150	+10
200	+10	200	30
250	20	250	80
300	40	300	150
350	70	350	270
400	100	400	400
450	140	450	600
500	180	500	870

\* $P$  = Peak density of a star image; $B$  = local background density; $\Delta\Delta$  = correction for lag in the PDS microdensitometer; $\Delta D$  = correction for the nonlinear response of the S201 camera;

All densities are in units of 0.01D.

measured density  $D_M = 350$  units (3.5D) is closely represented by the following expressions for linearized density  $D_L$ :

$$D_L = D_M + \exp[0.674(D_M - 130)^{0.39}], \text{ for } 350 > D_M > 130 \text{ units,} \quad (3a)$$

and

$$D_L = D_M, \text{ for } D_M \leq 130 \text{ units.} \quad (3b)$$

The corrections given by Eqs. (1), (2), and (3) have been applied to the image peak densities  $P$  as shown in Table 5, giving fully corrected density volumes  $V_c$ . Values of  $\log(V_c/V)$  versus  $V$  are plotted in Fig. 14. The "normal" background  $B \approx 50$ , and the correction for nonlinear response is small for faint and medium star images. However on three frames (A41, A145, and A199) there is a high background:  $B \approx 250$ . This requires a nonlinearity and lag correction to measured  $V$  even for faint images, as shown in Tables 4 and 5. Since the high background is subtracted from the (higher) star-image densities, the correction is the difference between  $\Delta D$  for density  $P$  and  $\Delta D$  for density 250, as given in Table 5. This high-background correction cannot be given for  $V > 5000$ , where  $P - B > 250$ , and for  $P > 500$ , the upper limit to densities recorded by the PDS microdensitometer.

Table 5 — Correction Factor  $V_c/V_M$  Applied to Measured Density-Volumes  $V_M$ 

Correction Factor for Various Background Levels												
$V_M$	$T$	$\Delta\Delta$	$B = 0$	$B = 50$	$B = 100$	$B = 150$	$B = 200$	$B = 250$	$B = 300$	$B = 350$	$B = 400$	$B = 450$
80	210	0	3.63	3.63	3.63	4.18	5.42	7.69	11.00	15.77	22.80	32.00
200	250	0	2.25	2.25	2.26	2.87	4.05	6.07	9.05	13.35	19.65	27.95
500	245	0	1.49	1.49	1.52	2.12	3.17	4.89	7.42	11.15	16.39	23.48
1,000	365	0	1.36	1.37	1.45	2.12	3.16	4.81	7.23	10.78	15.62	22.17
2,000	420	0	1.21	1.35	1.73	2.41	3.43	4.98	7.20	10.21	14.46	19.56
5,000	800	21	1.42	1.80	2.49	3.83	5.28	7.35	10.05	13.48	18.45	24.00
10,000	1000	67	1.58	2.23	3.58	5.47	7.42	9.81	13.21	17.21	21.21	24.00
20,000	1150	94	1.76	2.57	4.02	6.08	7.90	10.65	13.80	17.01	29.76	—
50,000	900	116	1.85	2.69	4.20	6.15	8.00	10.65	13.33	15.65	—	—
100,000	100	144	2.14	3.17	4.97	7.16	9.56	12.08	14.51	—	—	—
200,000	0	170	3.2	5.2	8.0	—	—	—	—	—	—	—
600,000	0	200	5.2	9.2	14	—	—	—	—	—	—	—



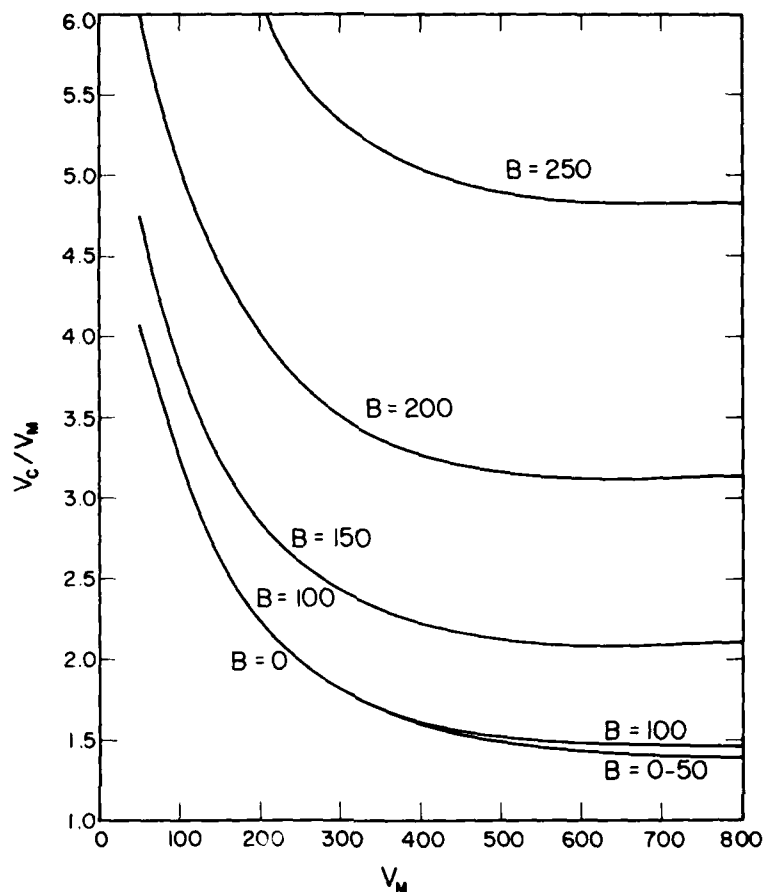


Fig. 14 — Correction factor  $V_c/V_m$  by which measured density-volumes  $V_M$  must be corrected for various values of background density  $B$

The nonlinearity correction portion of the correction factor  $V_c/V_M$  is based on Eq. (3), which was derived for uniform densities rather than peaked star images, and on the assumption that star-image density-volumes are represented by the cone-cap-skirt model discussed. Detailed examination of density mosaics of several hundred star images revealed many deviations recorded as differences between density-volume/exposure ( $V_i/E$ ) for different exposure times on the same star. Among probable causes of these deviations are differences in image size and shape with position in the camera field of view, trailing of the images due to lunar rotation (0.54 arc-min per minute at the lunar celestial equator), and overlapping images (flagged by  $D$  in column 16 of the Revised Catalog listing).

Density-volumes were summed on mosaics of  $D_L$  (density corrected for nonlinear response by Eq. (3)) to a level of 2 units (0.02D) above background, therefore requiring no truncation correction. Figure 15 is a plot of the ratio of the accurate, summed density-volume to the corrected computer density-volume  $V_c$  as a function of the measured (uncorrected) density-volume  $V_M$ . It shows that large density-volumes were overcorrected by the computer. The curve is the adopted correction to  $V_c$ : 0.70 for  $V_M$  greater than 3000, 0.80 for  $V_M$  between 1300 and 2250, and 1.0 for  $V_M = 100$ . ( $V_M$  is listed in column 16 of the Revised Catalog listing.)

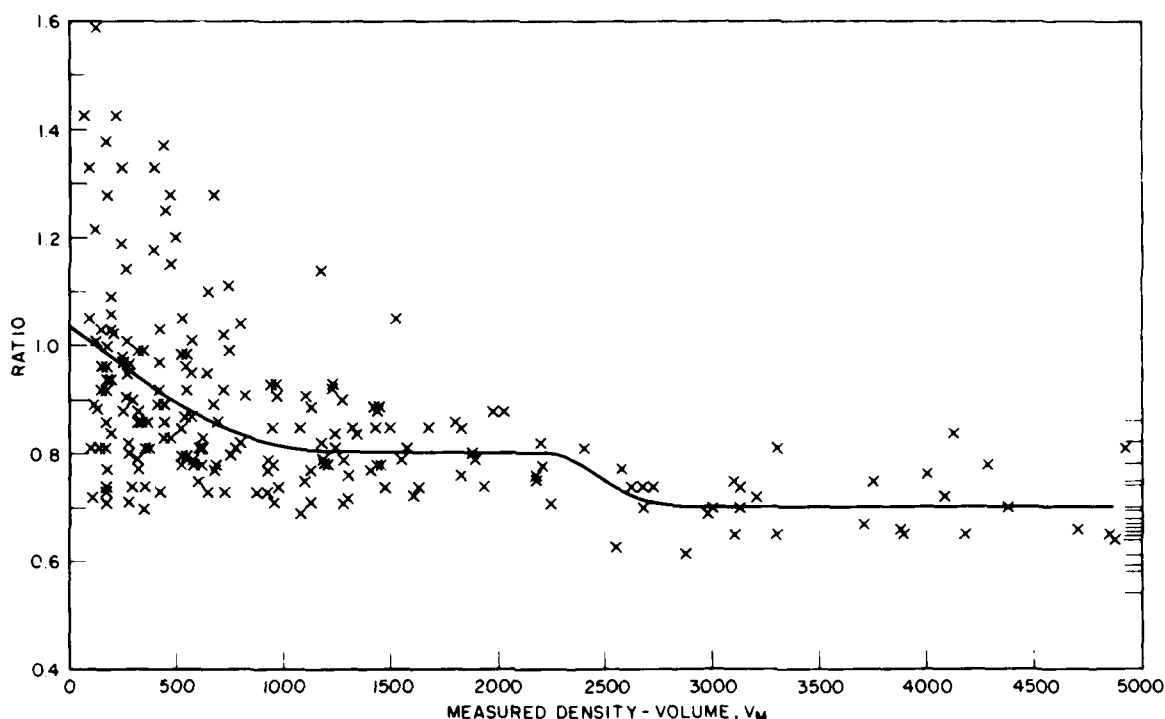


Fig. 15 — Correction factor to measured density-volumes of star images as a function of the average density in the image, derived by comparing different-exposure-time images of the same stars. The lines on the right margin indicate 17 points off scale at larger  $V_M$ .

Again, the combined corrections are not perfect, so the corrected  $V/E$  in column 17 of the Revised Catalog listing at the end of this document varies for different exposure times on the same star. However, these differences are smaller than for the uncorrected values, and the CORR.  $V/E$  entry is our best measure of the far-UV flux in the wavelength ranges 1050 to 1600 Å for ILi frames (LiF filter, abbreviated *L* in column 2) and 1250 to 1600 Å for ICa frames (CaF<sub>2</sub> filter, abbreviated *C* in column 2).

A computer program, MAGDEV, was written to print out deviations in the UV magnitude (column 18 in the Revised Catalog listing) wherever there were two or more *L* values or two or more *C* values for the same object, measured on separate frames, and to sum these to provide a mean deviation  $\Delta m_L$  or  $\Delta m_C$  for each field. Table 6 lists the range of exposure times, the numbers of objects with two or more  $m_L$  and two or more  $m_C$  values, and the mean deviations  $\Delta m_L$  and  $\Delta m_C$  after all corrections, including that in Fig. 15, were applied. As expected,  $\Delta m_L$  and  $\Delta m_C$  are larger for fields with the larger ranges in exposure times, and for the Sgr field, where there are many overlapping images. Excluding Sgr, the mean deviations for the other nine fields are  $\Delta m_L = \pm 0.163$  mag, and indication of the internal errors in the Revised S201 Catalog ultraviolet magnitudes.

### Stellar Ultraviolet Magnitudes

To convert the corrected density-volumes of the star images into measures of the stellar absolute UV brightnesses, we must apply a calibration of the density-volume as a function of integrated photon flux. Here, we will consider a calibration based on the preflight measurements of the instrument's sensitivity as a function of wavelength, which measurements in turn were based on comparisons with laboratory standard detectors of known sensitivity [1].

Table 6 — Magnitude Deviations in the Revised Catalog Listing

Field	Exposures (min)		No. of Deviations		Mean Deviation (mag)	
	ILi	ICa	ILi	ICa	$\overline{\Delta m_L}$	$\overline{\Delta m_C}$
Cygnus	0.25, 1, 3	3, 10, 3.7	290	665	0.152	0.071
Capricorn	1, 3	3, 10, 30	28	103	0.154	0.098
Cetus	1, 3	3, 10, 8.4	8	38	0.170	0.062
Grus	1, 1, 3	3, 3, 10, 10, 30	21	74	0.136	0.141
Pavo	1, 3	3	22	0	0.121	—
Mensa (less LMC)	1, 3	10, 30	62	164	0.157	0.097
Norma	1, 3	3, 4.1	250	429	0.179	0.060
Aquarius	0.25, 1, 1, 3, 3	3, 3, 10, 10, 30, 30	79	149	0.200	0.135
Fornax	1, 3	0.5, 3, 0.3	30	23	0.105	0.145
Sagittarius	1, 3	0.5, 3, 10, 30	332	1330	0.524	0.248
All fields			1122	2975	0.270	0.154
All, less Sagittarius			790	1645	0.163	0.082

For a monochromatic diffuse source the optical density of the image on the processed emulsion is given by  $D = Ist$ , where  $I$  is the monochromatic source density in kilorayleighs ( $1 \text{ kR} = 10^9/4\pi$  photons/cm<sup>2</sup>-s-sterad),  $s$  is the diffuse-source sensitivity in density units per kilorayleigh-second, and  $t$  is the exposure time in seconds. ( $E$  or  $EXP$  is used in this catalog for exposure time in minutes.)

The sensitivity  $s$  is the product of the overall detection (quantum) efficiency  $\eta$ , the "blackening factor"  $b$  (density units/photoelectron per  $\mu\text{m}^2$ , at the emulsion), and a geometrical factor  $G$  depending on the focal ratio of the optical system:  $G = 10^{-8} A/f^2$ , where  $A$  is the effective aperture in cm<sup>2</sup> and  $f$  is the focal length in centimeters. Thus for a monochromatic diffuse source

$$D = \frac{10^9}{4} I \eta b G t = \psi_\lambda \eta_\lambda b G t, \quad (4)$$

where  $\psi_\lambda$  is the monochromatic diffuse flux expressed in photons/cm<sup>2</sup>-s-sterad. For a nonmonochromatic diffuse source,

$$D = b G t \int \phi_\lambda \eta_\lambda d\lambda = b G t \phi_{\lambda\text{eff}} \eta_{\lambda\text{eff}} \Delta\lambda_{\text{eff}}, \quad (5)$$

where  $\phi_\lambda$  is in photons/cm<sup>2</sup>-s-sterad-Å,  $\lambda_{\text{eff}}$  is the effective wavelength of the camera for a flat continuum ( $\phi_{\lambda\text{eff}} = \phi_\lambda = \text{constant}$ ), and  $\eta_{\lambda\text{eff}} \Delta\lambda_{\text{eff}}$  or  $(\eta \Delta\lambda)_{\text{eff}}$  is the area under the curve of efficiency versus wavelength (half of which falls on either side of  $\lambda_{\text{eff}}$ ). The result is relatively insensitive to slight changes in the shape of the continuum distribution.

For a point source the number of photoelectrons recorded in the image is

$$n = A t \int \Phi_\lambda \eta_\lambda d\lambda = A t \Phi_{\lambda\text{eff}} (\eta \Delta\lambda)_{\text{eff}}, \quad (6)$$

where  $\Phi_\lambda$  is the point-source photon flux (photons/cm<sup>2</sup>-s-Å). The density distribution in the recorded image of course depends on the resolution and details of the image structure. However, if linearity of response is assumed, the total density-volume is independent of these details and is

$$V = \int D \, dA = \bar{D}A = b \int \frac{n}{A} \, dA = nb. \quad (7)$$

For the S201 camera at wavelength 1216 Å, preflight calibrations, confirmed by imagery of the hydrogen geocorona and the interplanetary Lyman-α background [2], yield a value  $b = 0.4D/\text{photoelectron-}\mu\text{m}^2$ . Hence the theoretical density-volume  $V = 0.4n$ , with area expressed in  $\mu\text{m}^2$  and density as normally defined. However, with area expressed in number of pixels (33  $\mu\text{m}$  square) and density in PDS units (100 times the optical density),

$$V = 0.037n. \quad (8)$$

Thus a star image resulting from 1000 photoelectrons will yield a density-volume  $V = 37$ . The photoelectron flux at the recording emulsion,  $n/E = N_{pe}$ , with  $E$  in minutes, is related to the photon flux (integrated over the camera bandpass)  $\Phi_{\lambda\text{eff}}$  by

$$N_{pe} = 60A\Phi_{\lambda\text{eff}}(\eta\Delta\lambda)_{\text{eff}} = 27 \frac{V}{E}. \quad (9)$$

In the following we will deal with the corrected density-volume divided by exposure time ( $V_c/E$ ), as a measure of UV brightness. We may also convert the measured  $V_c/E$  values to UV magnitudes. Our magnitude system is set up in the same way as, and is compatible with, the OAO-2 system of UV magnitudes given by Code, Holm, and Bottemiller [13]. The OAO system is such that a source with a flat continuum energy distribution (energy flux  $F_\lambda$  constant with wavelength) has at each wavelength a magnitude equal to its visual magnitude ( $m_v$ , or  $m_{5500}$ ); that is,

$$m_\lambda = \text{const.} - 2.512 \log F_\lambda = \text{const.} - 2.512 \log (5500 \Phi_\lambda/\lambda). \quad (10)$$

Since the photoelectron flux  $N_{pe} = 27 V_c/E$  is proportional to  $\Phi_{\lambda\text{eff}}$ , our UV magnitudes may be expressed as

$$m_L = L - 2.512 \log (V_c/E)_L \quad (11a)$$

and

$$m_C = C - 2.512 \log (V_c/E)_C. \quad (11b)$$

The constants  $L$  and  $C$  were determined from the preflight calibrations of the instrument. Actual values of  $(\eta\Delta\lambda)_{\text{eff}}$  were determined from the S201 response curve (Fig. 1) and weighted for a flat spectrum ( $N_\lambda \propto \lambda/5500$ ):

$$\begin{aligned} \Phi_{\lambda\text{eff}}(\eta\Delta\lambda)_{\text{eff}} &= 5.94, \text{ for the ILi mode } (\lambda_{\text{eff}} = 1300 \text{ Å}), \\ &= 2.48, \text{ for the ICa mode } (\lambda_{\text{eff}} = 1400 \text{ Å}). \end{aligned}$$

These values represent the photoelectron flux for a flat continuum with 1 photon/cm<sup>2</sup>-s-Å at 5500 Å, per cm<sup>2</sup> of collecting aperture. For  $m_v = 7.605$ , the photon flux from a flat continuum source is

$$\begin{aligned} \Phi_\lambda &= 1 \text{ photon/cm}^2\text{-s-Å, at } 5500 \text{ Å,} \\ &= 1300/5500 = 0.236, \text{ at } 1300 \text{ Å,} \\ &= 1400/5500 = 0.255, \text{ at } 1400 \text{ Å.} \end{aligned}$$

The effective collecting area  $A = 30 \text{ cm}^2$  for the S201 camera. Therefore

$$\begin{aligned} N_{pe} &= 45,300 \Phi_{1300}, \text{ for ILi exposures,} \\ &= 17,506 \Phi_{1400}, \text{ for ICa exposures.} \end{aligned}$$

By use of Eq. (8),

$$\begin{aligned} V_c/E &= 0.037N_{pc} = 395, \text{ for a 7.6-magnitude star at } 1300 \text{ \AA}, \\ &= 165, \text{ for a 7.6-magnitude star at } 1400 \text{ \AA}. \end{aligned}$$

The constants in Eq. (11) are then

$$L = 7.605 + 2.512 \log 395 = 14.13$$

and

$$C = 7.605 + 2.512 \log 165 = 13.18.$$

Hence the final expressions for the S201 UV magnitudes are

$$m_L = 14.13 - 2.512 \log (V_c/E)_L \quad (12a)$$

and

$$m_C = 13.18 - 2.512 \log (V_c/E)_C. \quad (12b)$$

Figures 16 through 29 are plots of visual magnitudes versus UV magnitudes on ILi and ICa frames. The observed stars are grouped into seven SAO spectral type categories: O to B2, B3, B5, B8, B9, A0, and A2-A5. The plots include all images (on all exposures) taken in either the ILi or the ICa mode; hence a given SAO star is usually represented by more than one point on each plot. Within each group, there is a scatter of about 1 magnitude about the mean relationship of visual magnitude and UV magnitude. These deviations are probably due to:

- Uncertain identification of SAO stars (as indicated by symbols after the SAO number in the Catalog listing),
- Differences in interstellar extinction,
- Errors in SAO visual magnitudes and/or spectral types,
- Actual differences in far-ultraviolet flux from stars of a given spectral type or spectral-type range, and
- Errors in background (B) estimates.

The many negative deviations, indicated by  $L$  in the Catalog listing, could be due to large interstellar extinction, and the positive deviations ( $H$ ) may be due to the stars' far-UV excess—both worthy of further study.

## COMPARISON WITH STELLAR MODELS

To compare the measured far-ultraviolet fluxes with expectations (with more accuracy than used in the STARPLOT program), the response curve for the S201 camera (Fig. 1) was folded with model-atmosphere calculations by Kurucz, Peytremann, and Avrett (KPA) [14] and the "average" far-UV extinction curve of Bless and Savage [15].

Figure 30 shows plots of KPA model predictions of photon flux as a function of wavelength, normalized to the visual region (5500 Å), where a star of visual magnitude 7.6 yields a flux of 1 photon/cm<sup>2</sup>-s-Å [16], and Fig. 31 shows the effects of varying degrees of interstellar reddening on the

(Continues on page 59.)

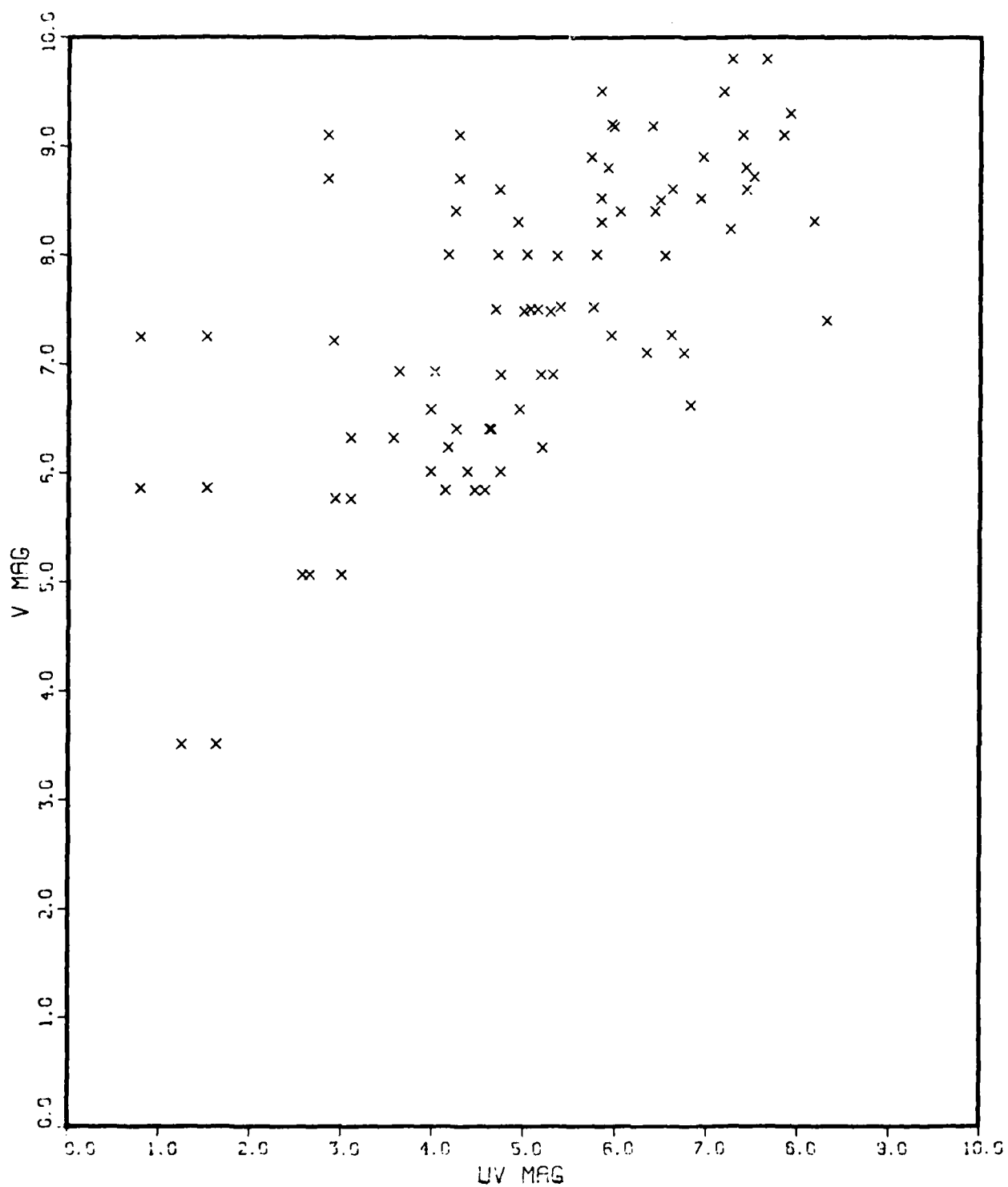


Fig. 16 — Ultraviolet magnitudes (ILi mode) in relation to SAO visual magnitudes for 85 star images having SAO classifications O through B2

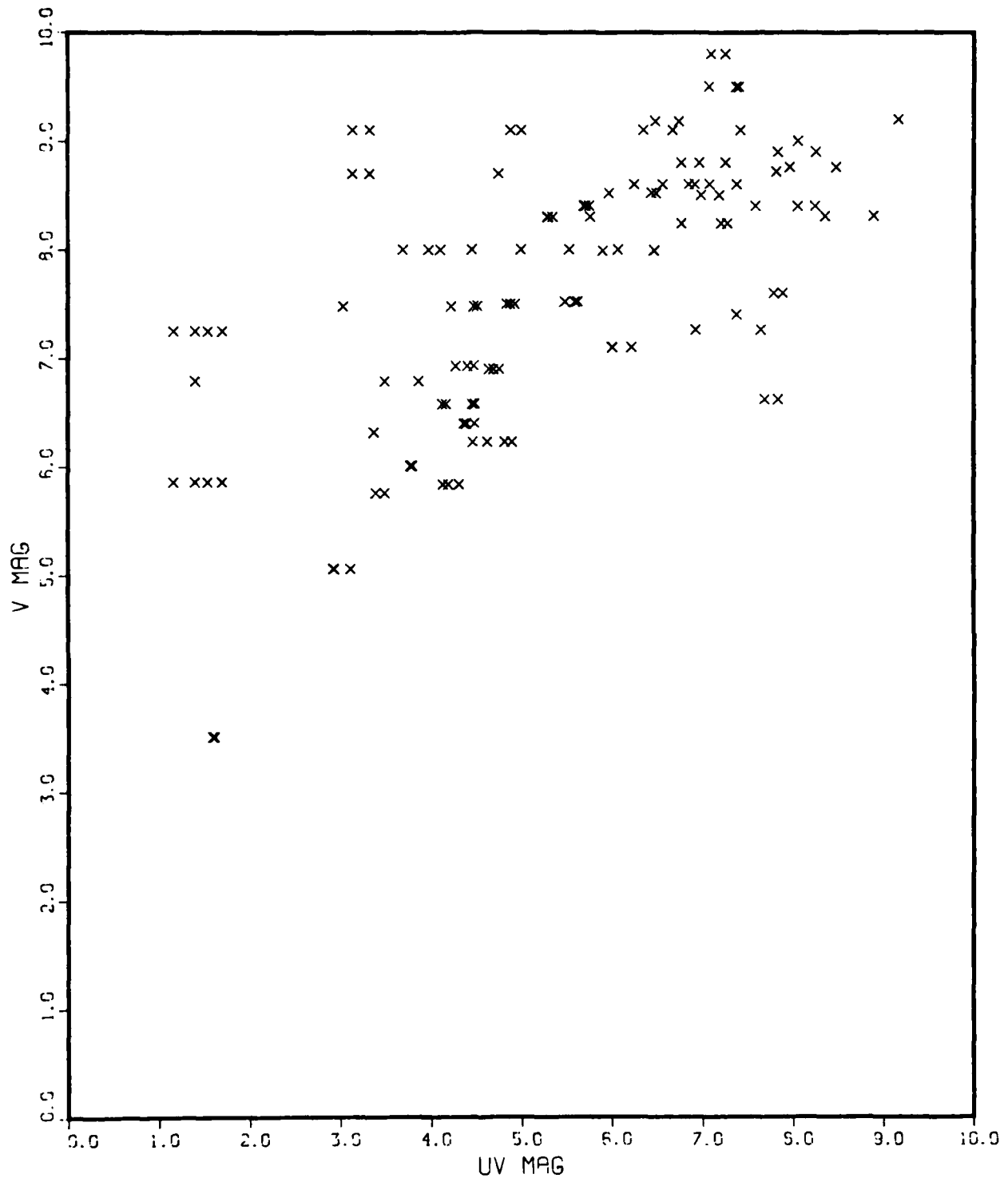


Fig. 17 — Ultraviolet magnitudes (ICa mode) in relation to SAO visual magnitudes for 129 star images having SAO classifications O through B2

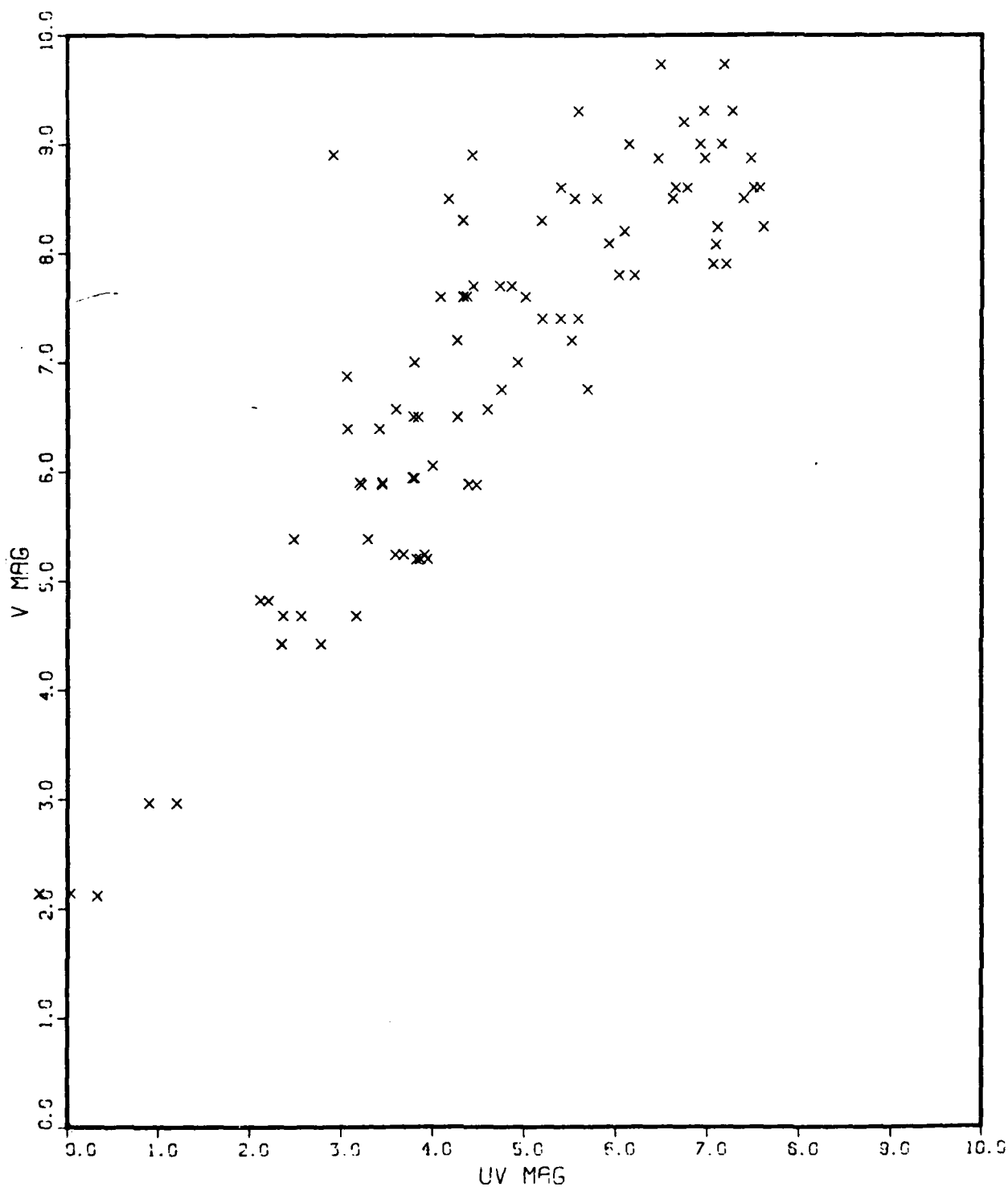


Fig. 18 — Ultraviolet magnitudes (ILI mode) in relation to SAO visual magnitudes for 91 star images having SAO classification B3



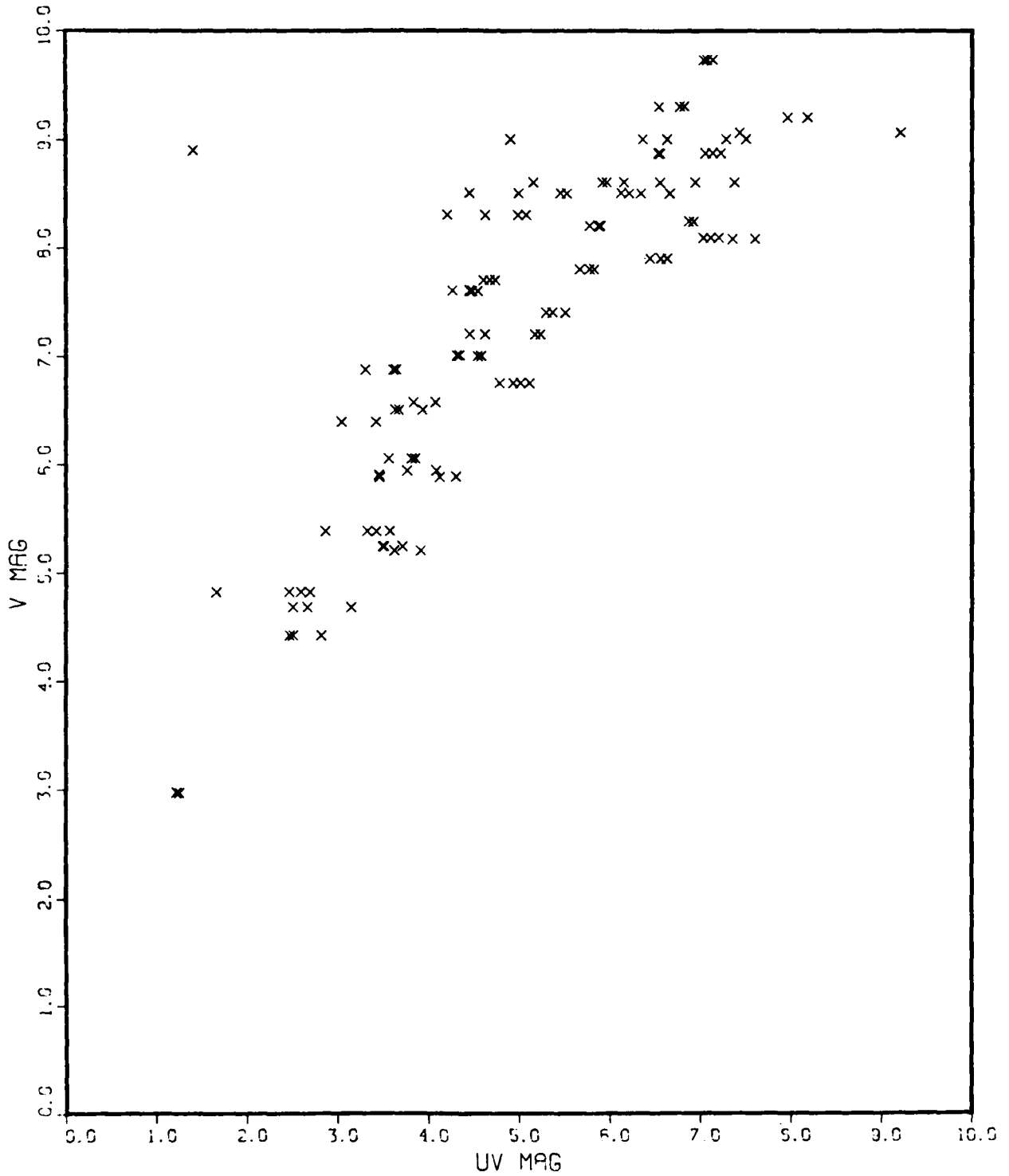


Fig. 19 — Ultraviolet magnitudes (ICa mode) in relation to SAO visual magnitudes for 125 images of stars having SAO classification B3

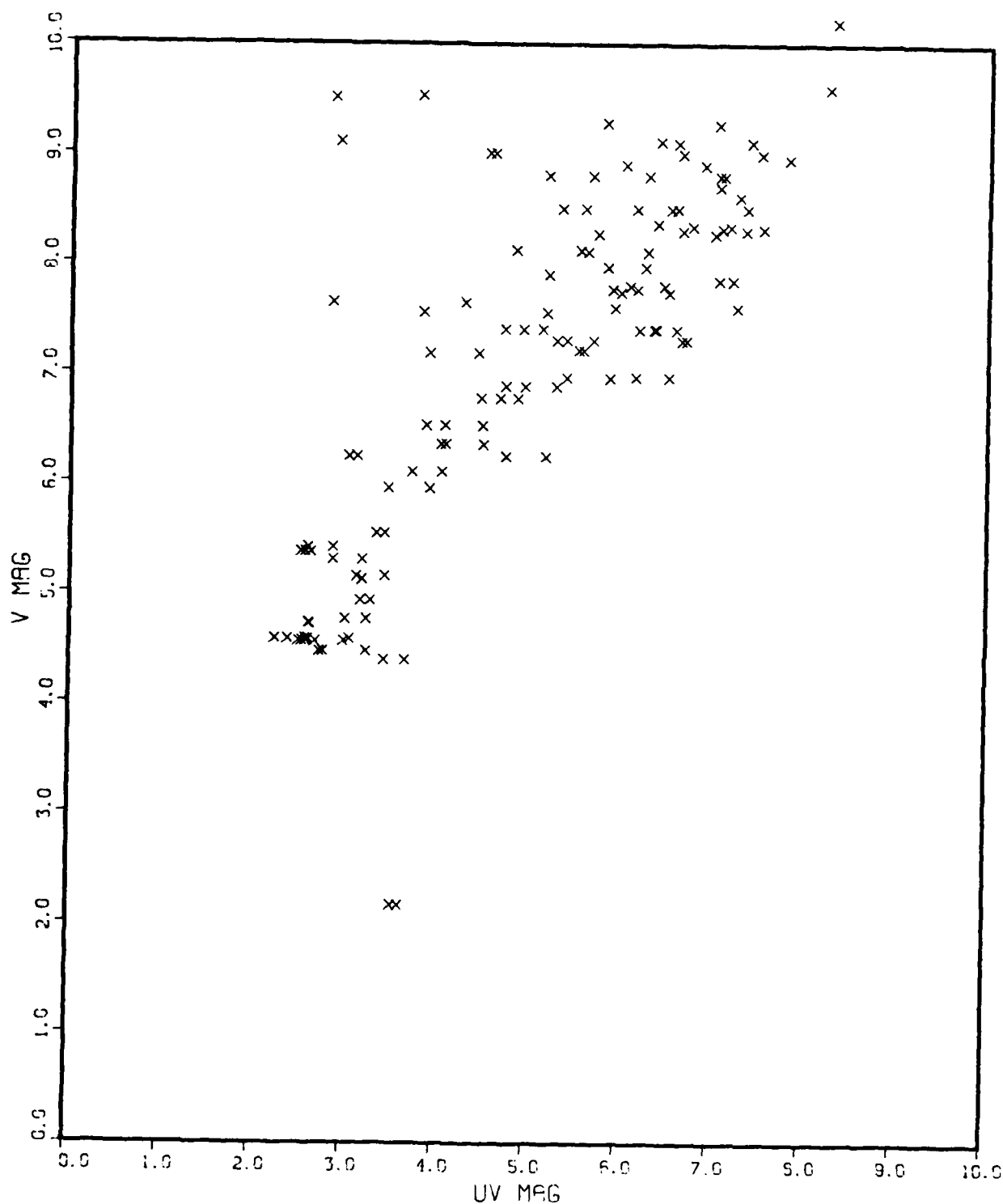


Fig. 20 — Ultraviolet magnitudes (ILi mode) in relation to SAO visual magnitudes for 136 images of stars having SAO classification B5

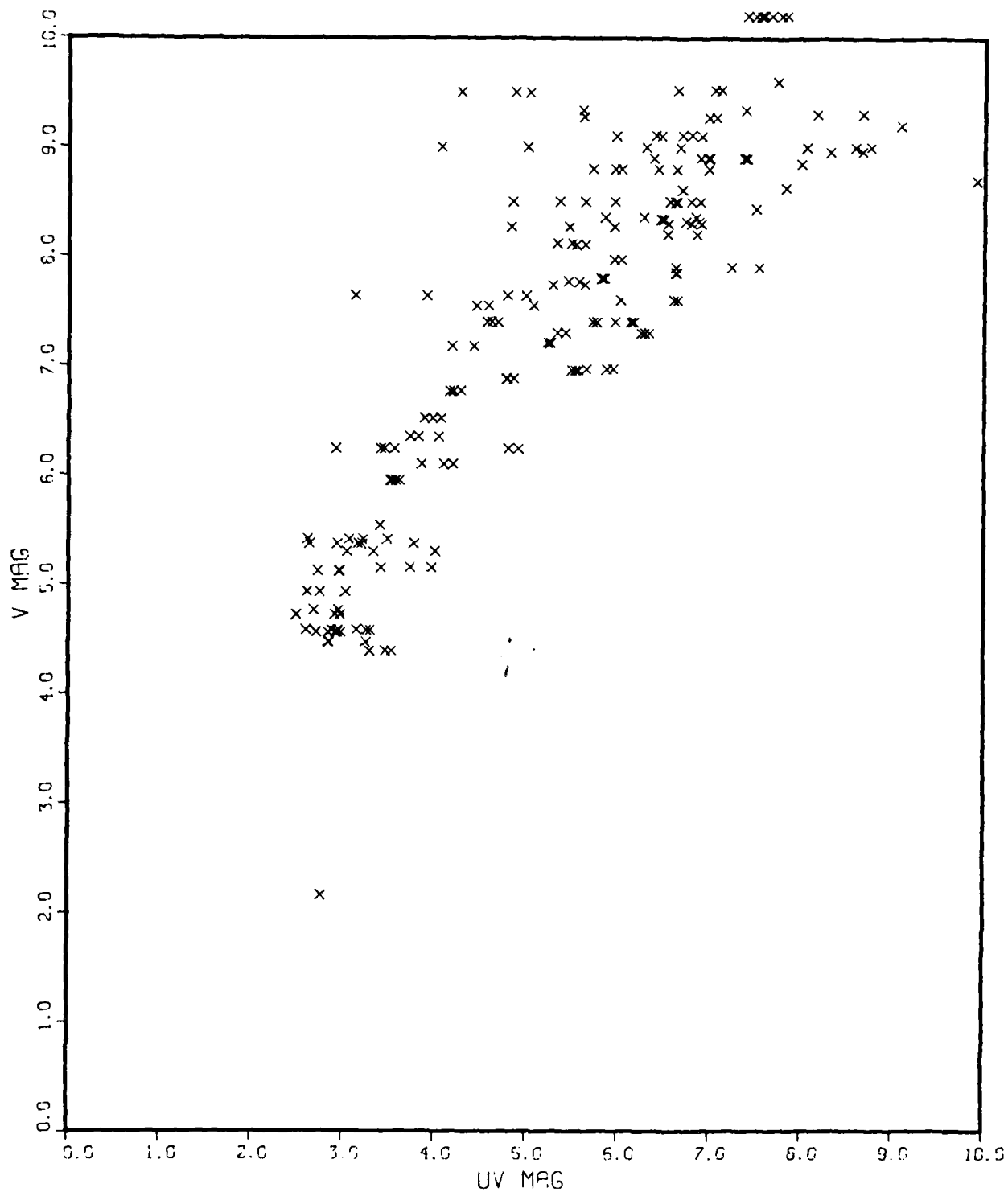


Fig. 21 — Ultraviolet magnitudes (ICa mode) in relation to SAO visual magnitudes for 206 star images having SAO classification B5

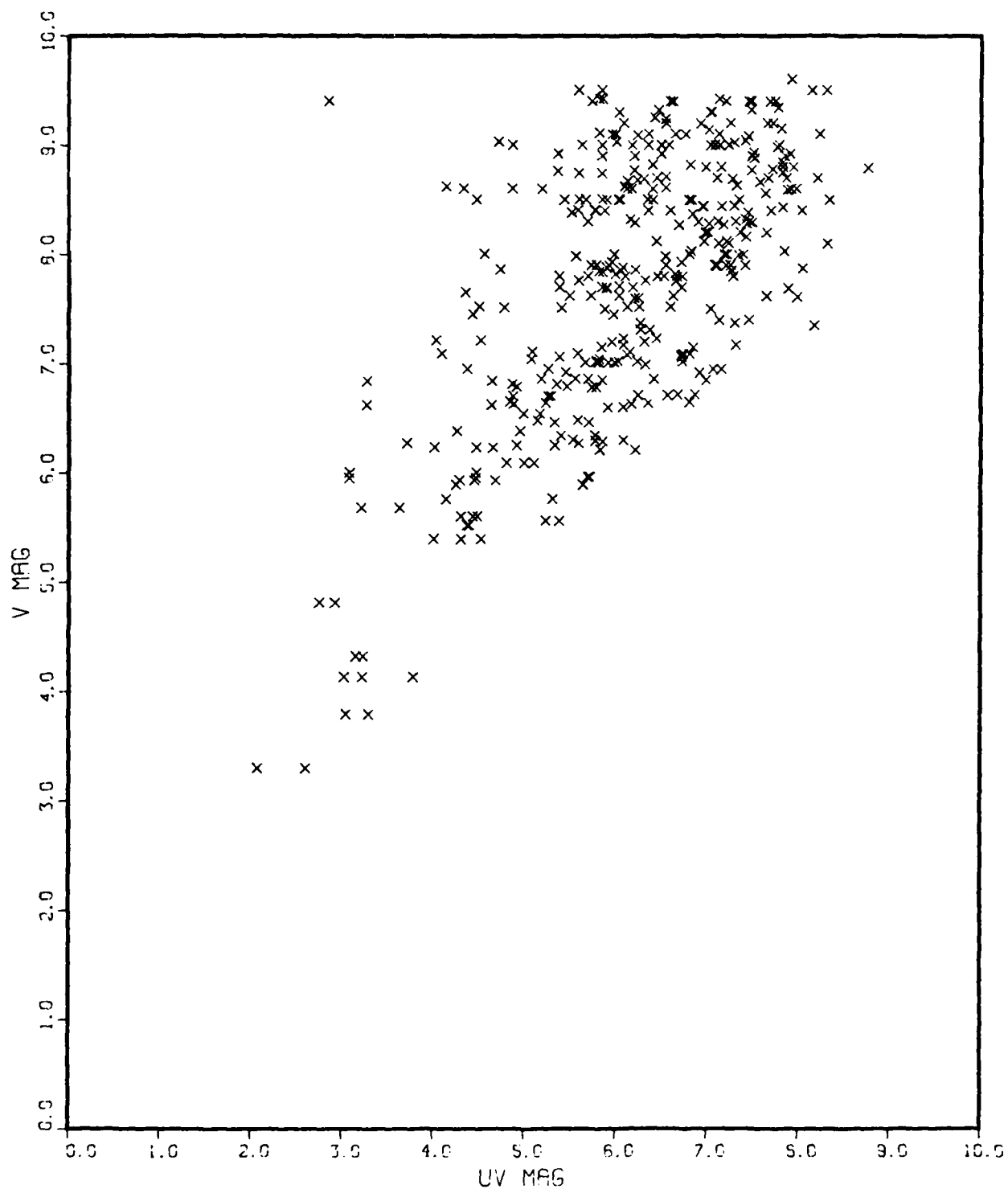


Fig. 22 — Ultraviolet magnitudes (ILi mode) in relation to SAO visual magnitudes for 376 star images having SAO classification B8

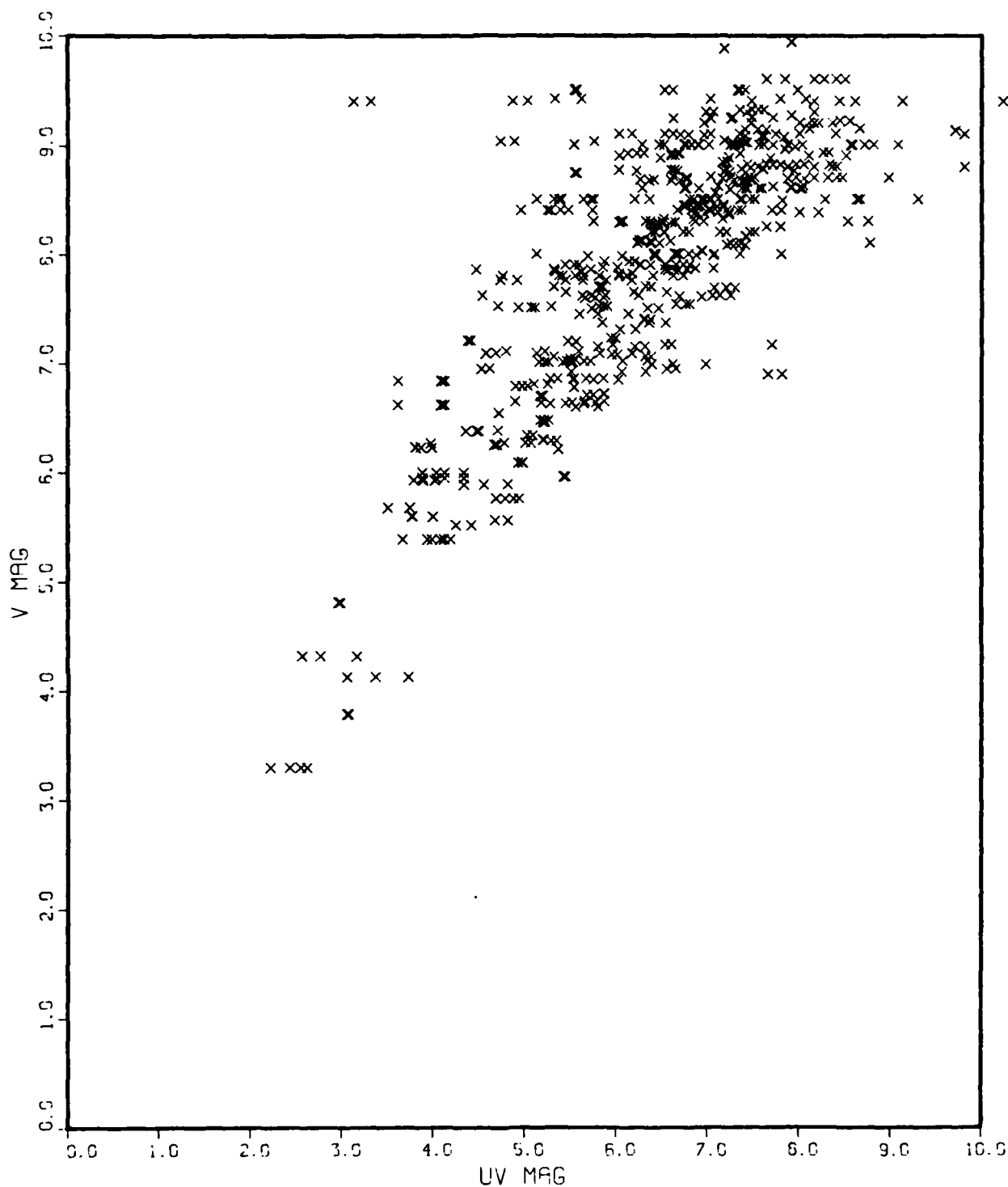


Fig. 23 — Ultraviolet magnitudes (ICa mode) in relation to SAO visual magnitudes for 614 star images having SAO classification B8

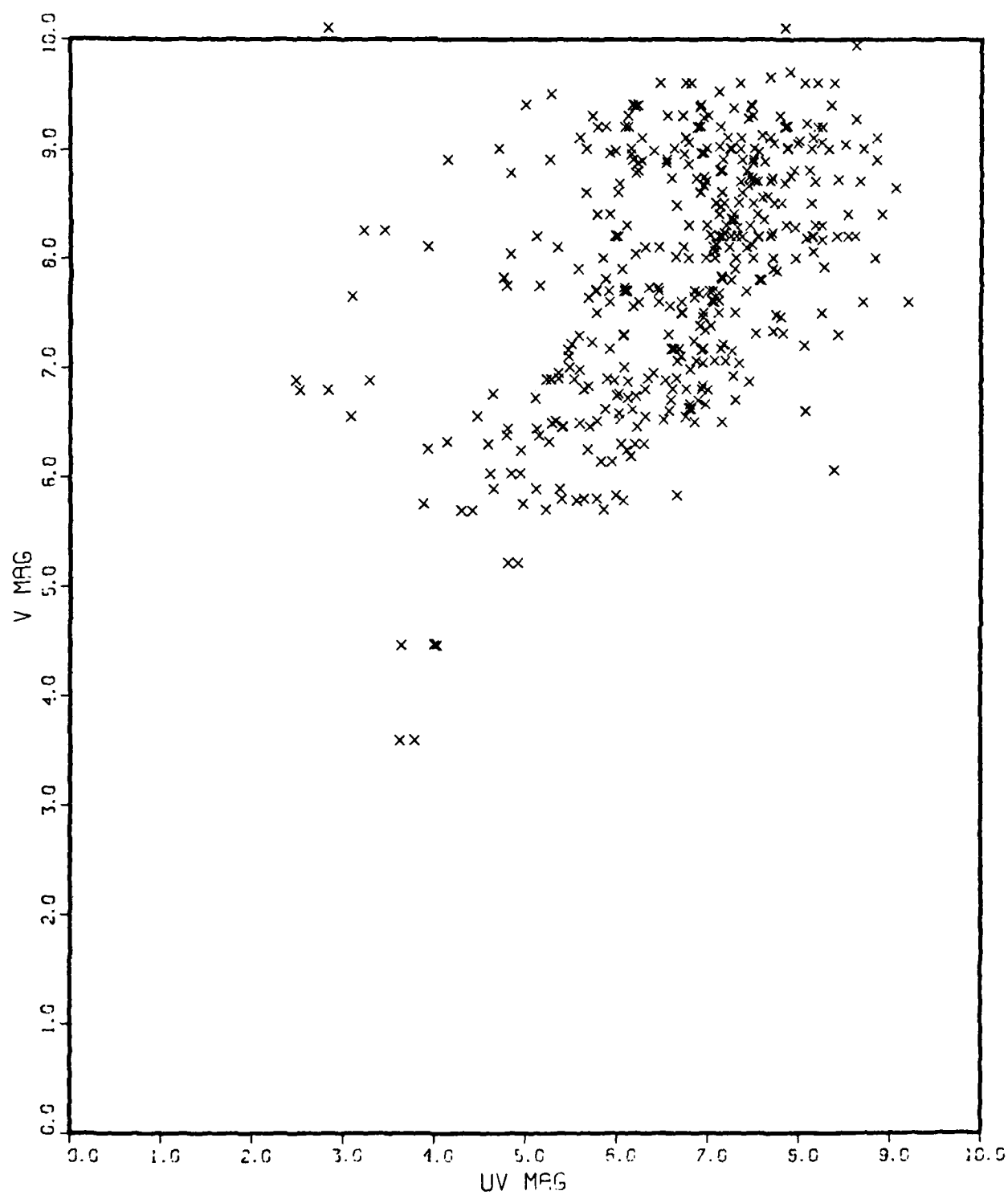


Fig. 24 — Ultraviolet magnitudes (ILi mode) in relation to SAO visual magnitudes for 412 star images having SAO classification B9

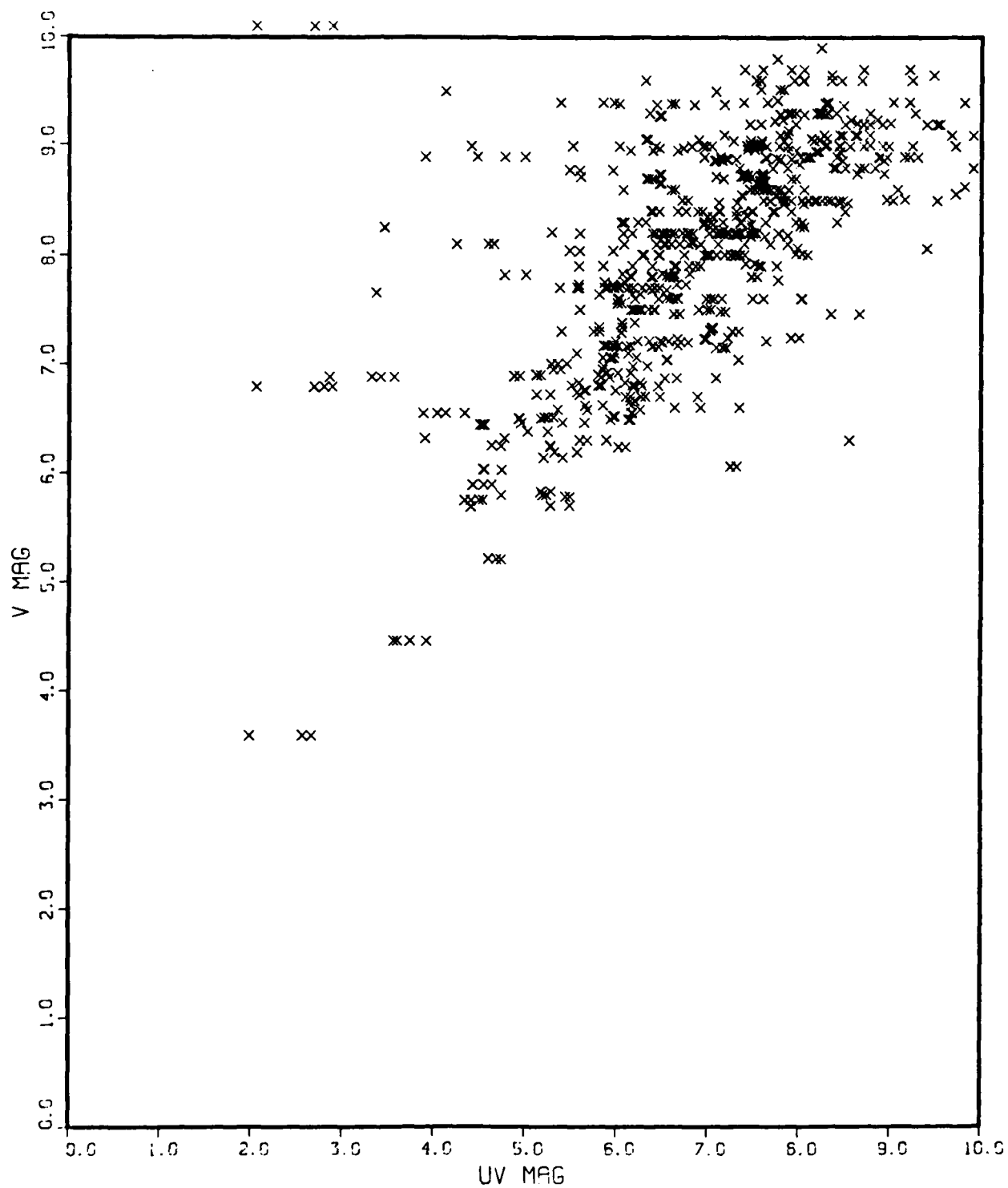


Fig. 25 — Ultraviolet magnitudes (ICa mode) in relation to SAO visual magnitudes for 459 star images having SAO classification B9

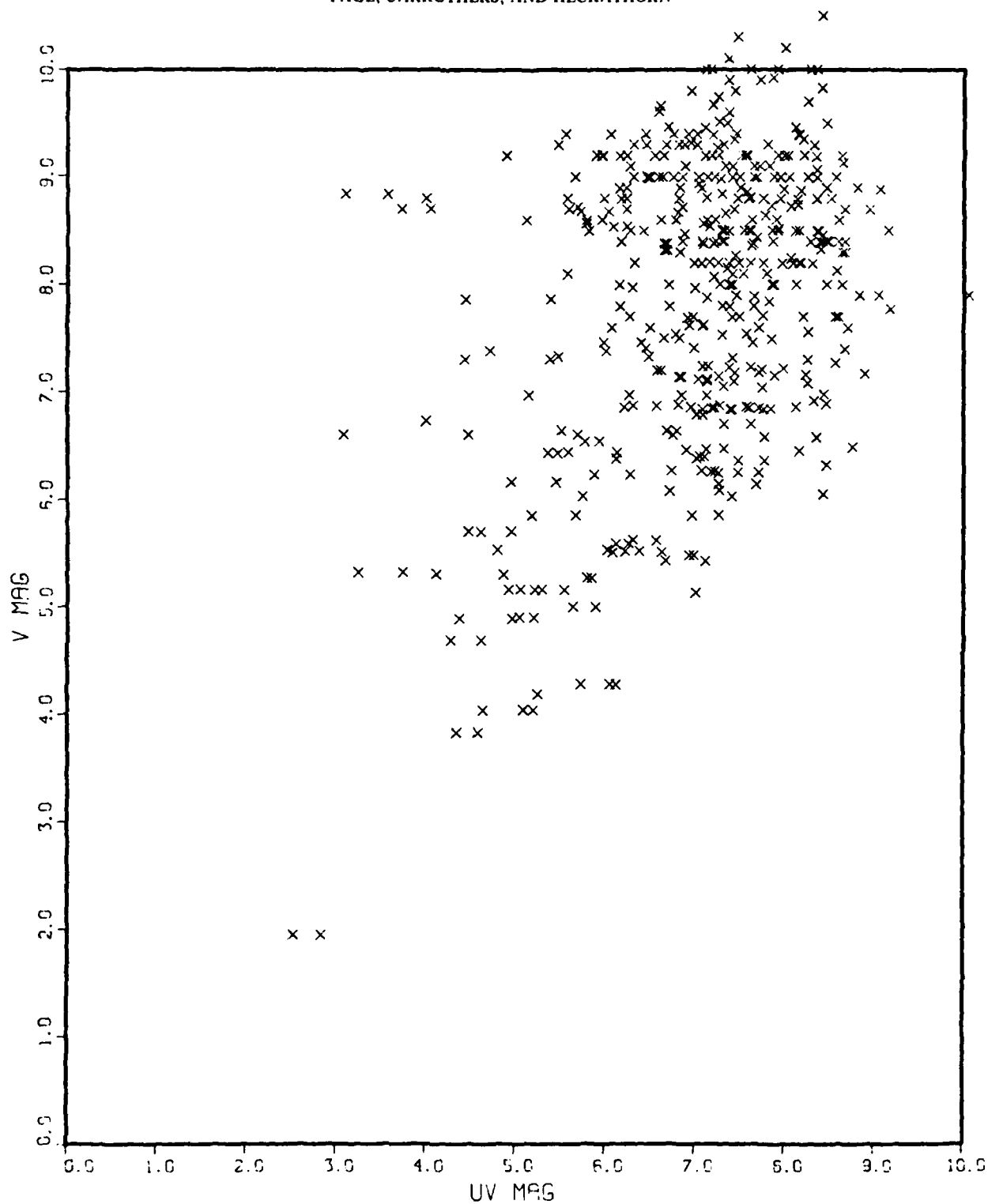


Fig. 26 — Ultraviolet magnitudes (1Li mode) in relation to SAO visual magnitudes for 459 star images having SAO classification A0



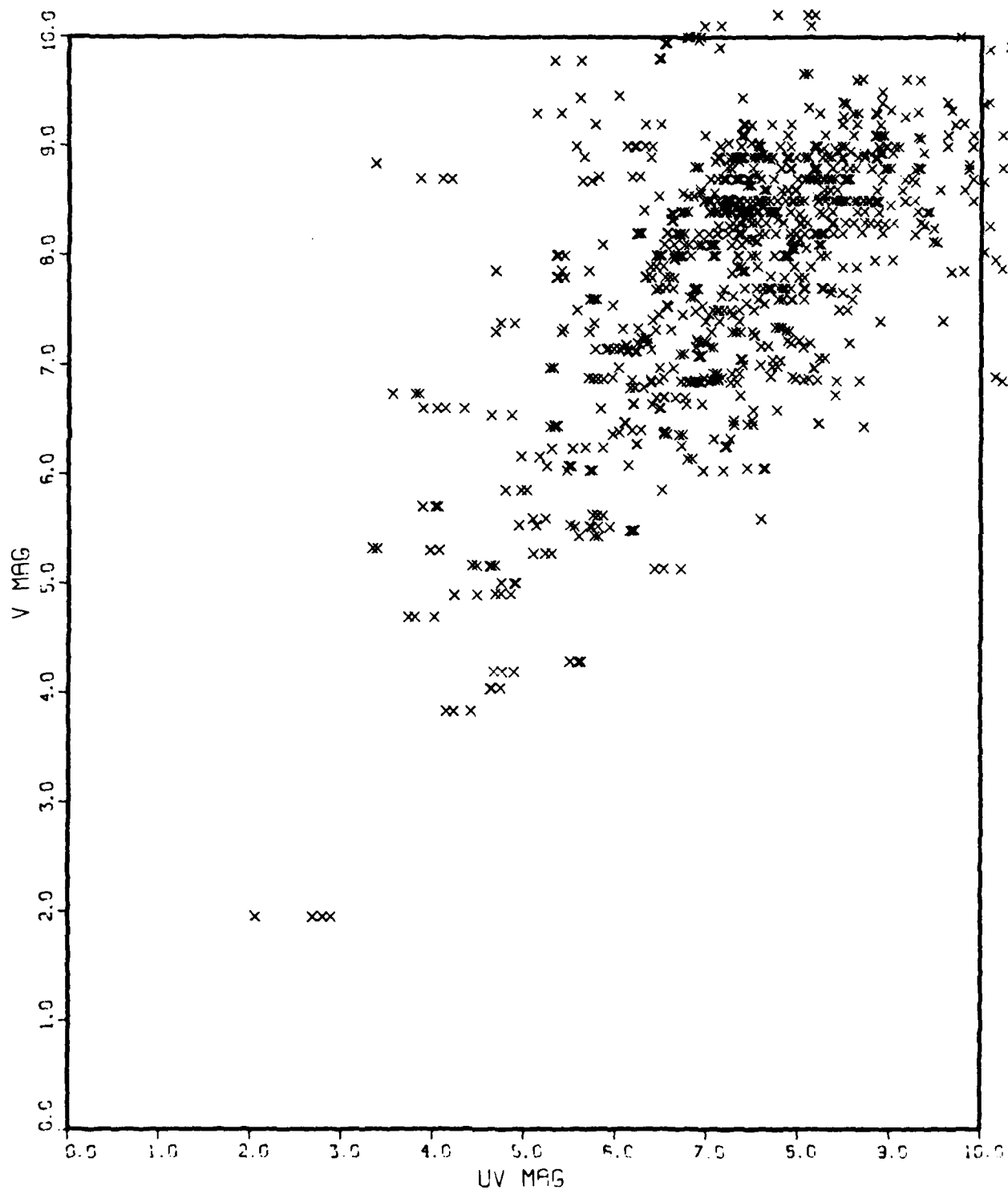


Fig. 27 — Ultraviolet magnitudes (ICa mode) in relation to SAO visual magnitudes for 889 star images having SAO classification A0

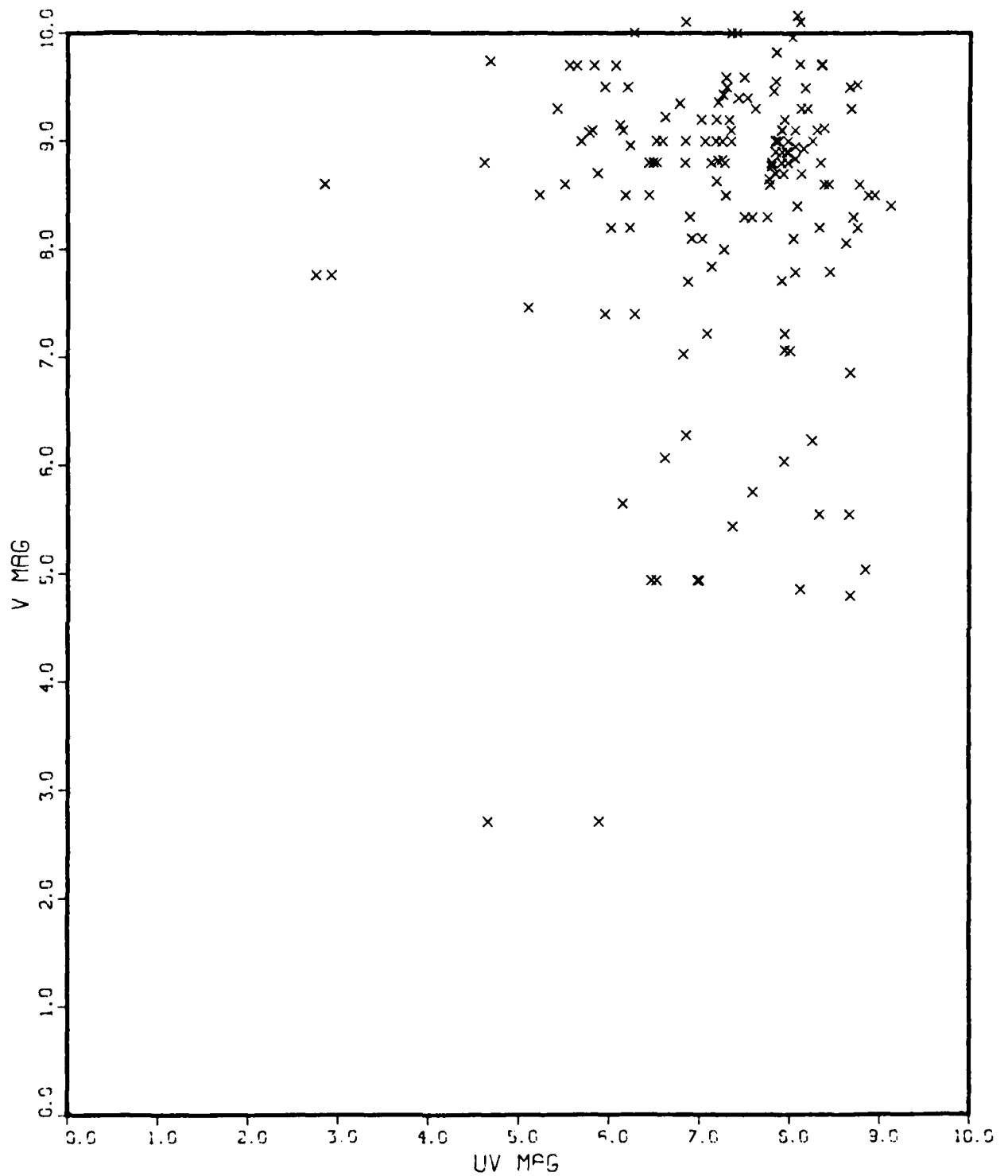


Fig. 28 — Ultraviolet magnitudes (ILi mode) in relation to SAO visual magnitudes for 154 star images having SAO classification A2 through A5

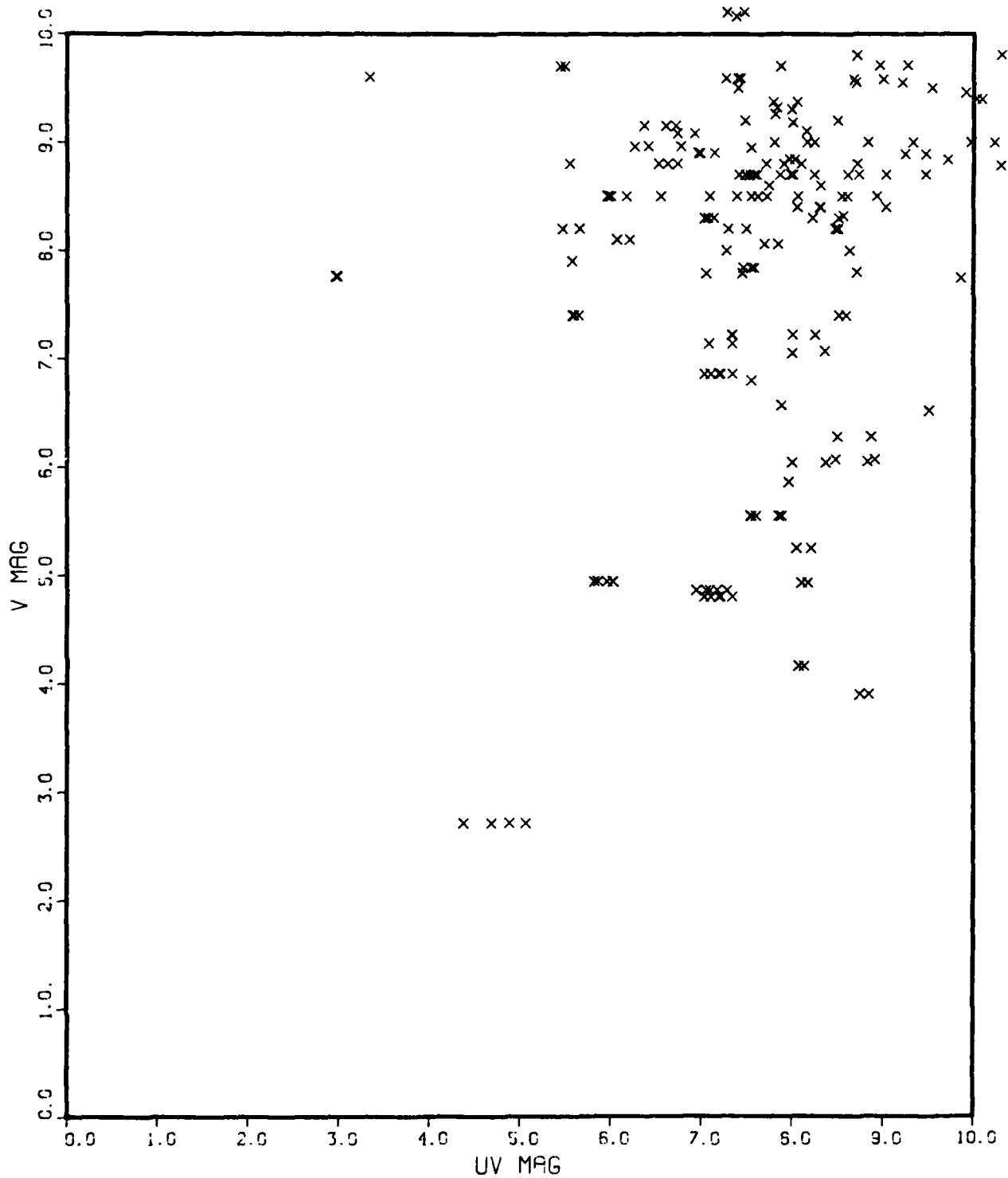


Fig. 29 — Ultraviolet magnitudes (ICa mode) in relation to SAO visual magnitudes for 192 star images having SAO classification A2 through A5

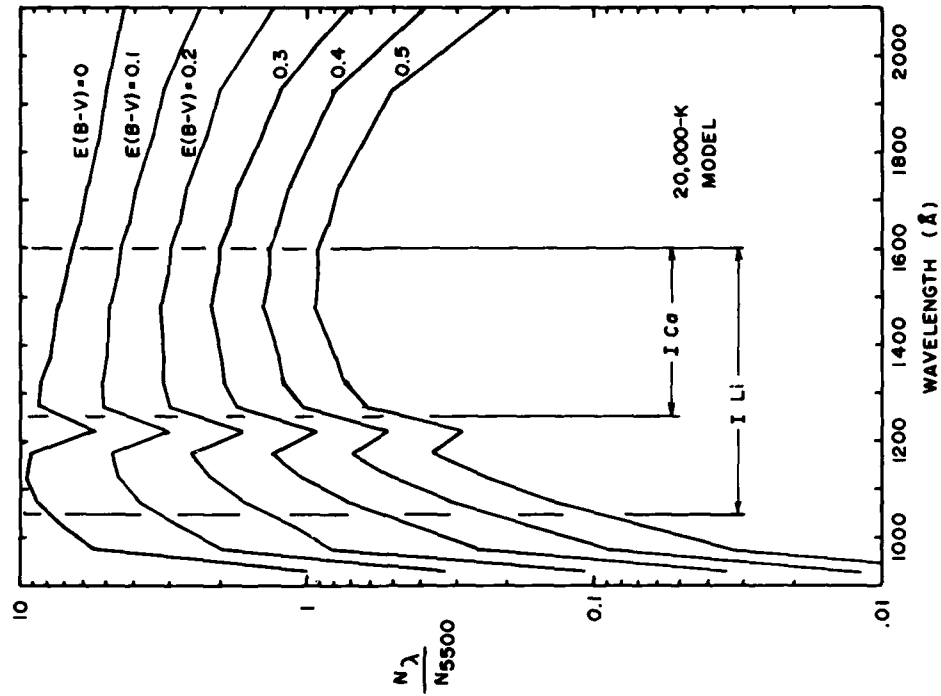


Fig. 31 — Effects of various degrees of interstellar reddening  $E(B - V)$  on the 20,000-K-model-atmosphere photon fluxes, normalized to 5500 Å. The interstellar extinction as a function of wavelength is the "average" interstellar extinction law of Bless and Savage [15].

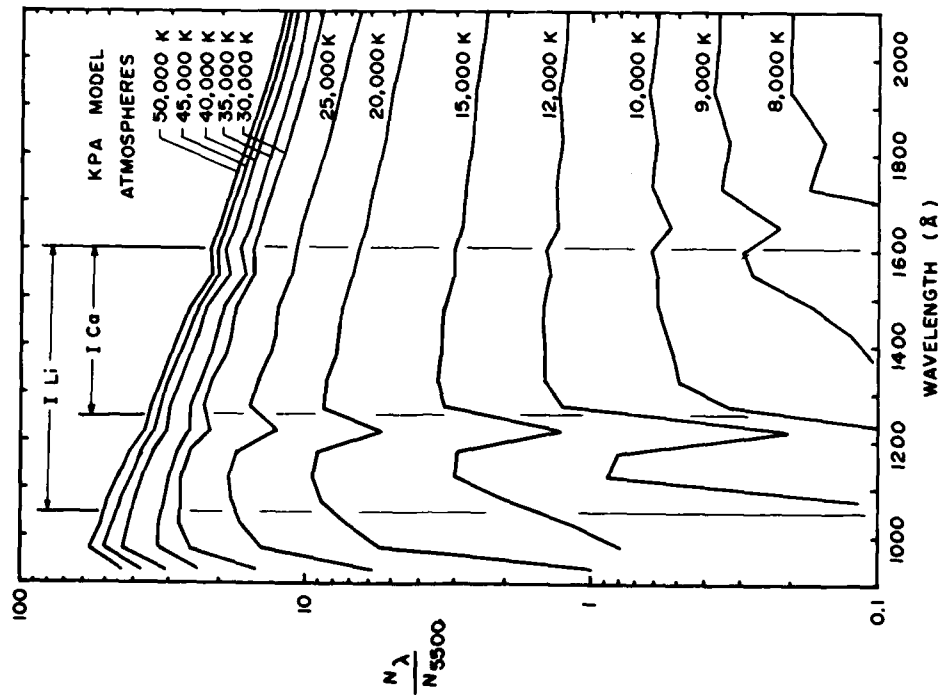


Fig. 30 — Theoretical model atmosphere predictions of photon flux as a function of wavelength, normalized to 5500 Å, by Kurucz, Peytremann, and Avrett [14]

20,000-K-model fluxes. Folding of these curves with the response functions in ILi and ICa modes (Fig. 2) using Eqs. (6) and (8) yields the curves of density-volume/exposure for a star of visual magnitude 7.6 shown in Fig. 32, and the ratio ILi/ICa shown in Figs. 33 and 34. Figure 35 shows the computed stellar visual magnitude required to produce a "standard" density-volume  $V = 5131$  for the various ILi and ICa exposures in relation to the unreddened model effective temperature  $T_e$ . This "standard" density volume corresponds to a conical image with peak density  $P = 100$  and a 7-raster diameter ( $N = 38$  pixels, the average number of pixels corresponding to roughly circular images this size) and is by no means the weakest measurable image. Density-volumes of 80 with  $P < 75$  and  $N = 4$  are measured reliably, although the corrected density-volume  $V_c$  equals 290 (Table 5). That is, images 3 magnitudes fainter than this "standard" have been detected, measured, and recorded in the catalog. Thus, in 30-min ICa exposures, unreddened early-type stars as faint as  $m_v = 15$  should be readily measurable if the preflight calibration and theoretical models are valid and if the star image resolution is not degraded by lunar rotation or other effects.

Figures 36 through 38 give the theoretical relationship between UV magnitude and visual magnitude, for various effective temperatures and interstellar reddenings, based on the instrument preflight

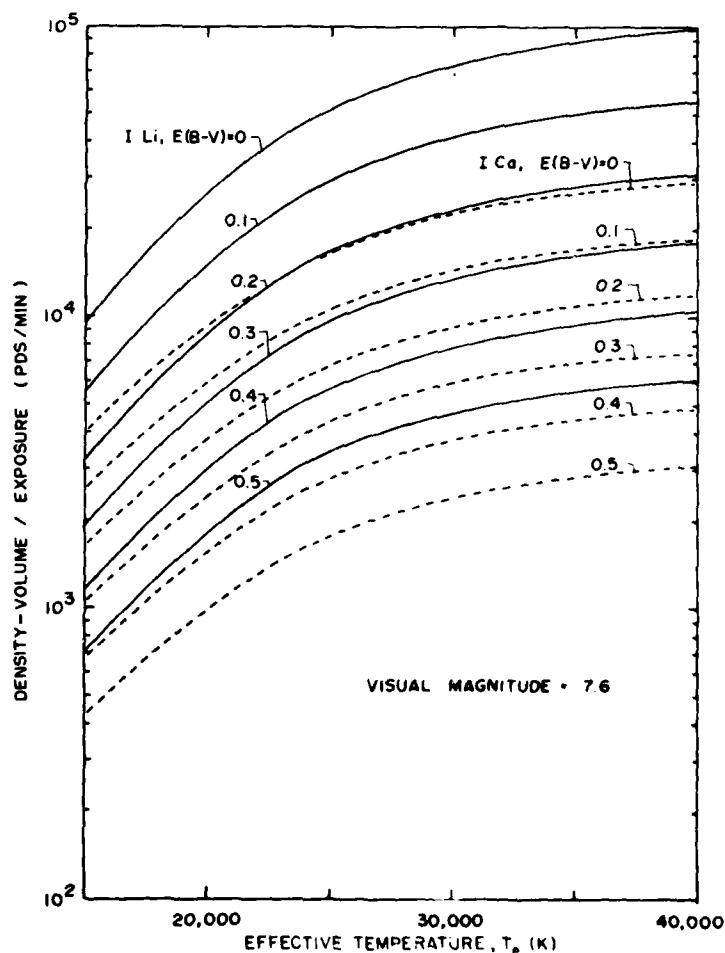


Fig. 32 — Theoretical density volume/exposure for stars of visual magnitude 7.6, as a function of effective temperature and for a range of interstellar reddening

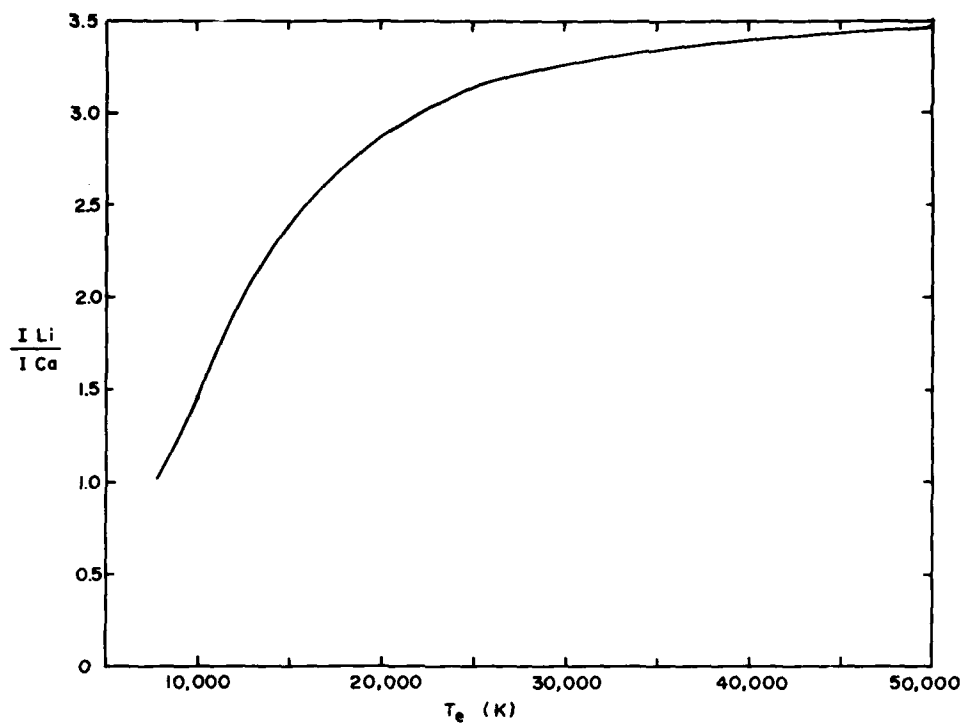


Fig. 33 — Theoretical ratio of density-volume/exposure in ILi mode to that in ICa mode, as a function of stellar effective temperature

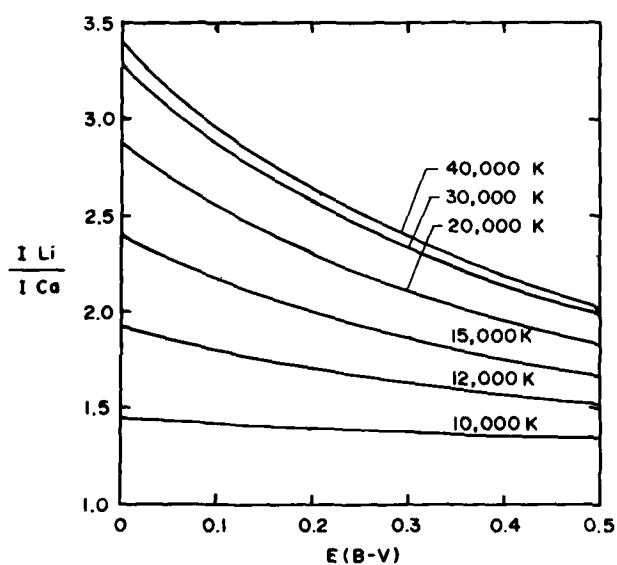


Fig. 34 — Ratio  $I_{Li}/I_{Ca}$  as in Fig. 32, as a function of interstellar reddening

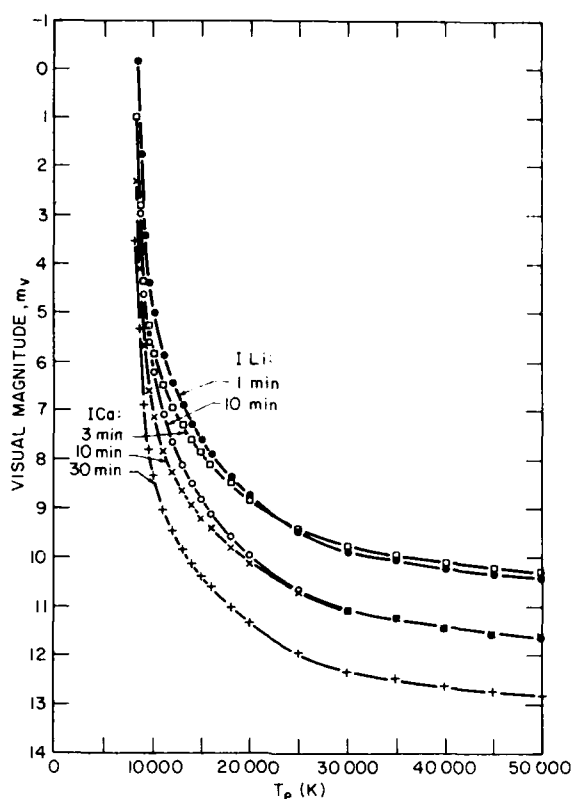


Fig. 35 — Computed stellar visual magnitude required to produce a density-volume  $V = 5131$  for various S201 exposures

calibrations. The duplicates of these plots, supplied in the pocket on the inside of the back cover as transparent overlays, may be directly compared with the plots of visual magnitude  $m_v$  versus  $m_L$  or  $m_C$  in Figs. 16 through 29. Unfortunately, as is apparent from Figs. 32 and 34, it is not practical to separate the effects of temperature and of interstellar extinction using the far-UV imagery data alone; the effect of extinction is nearly equivalent to a decrease in effective temperature in the wavelength range covered by ILi and ICa exposures. Only if the near-visual reddening and/or effective temperature is known from ground-based measurements can the far-UV fluxes be used to provide independent estimates of temperature and far-UV extinction.

Table 7 gives in the first two columns the approximate effective temperature as a function of spectral type for early-type main-sequence stars [17,18]. For more luminous stars (especially supergiants) the effective temperatures may be considerably lower. In Table 8 the density-volumes of those stars which appear too bright in comparison to predictions of unreddened models appropriate for their spectral type are compared with the predicted density-volumes. The latter are given by

$$\log (V/E)_L = A - m_v/2.512 \quad (13a)$$

and

$$\log (V/E)_C = B - m_v/2.512, \quad (13b)$$

where the constants  $A$  and  $B$  have been given in Table 7.

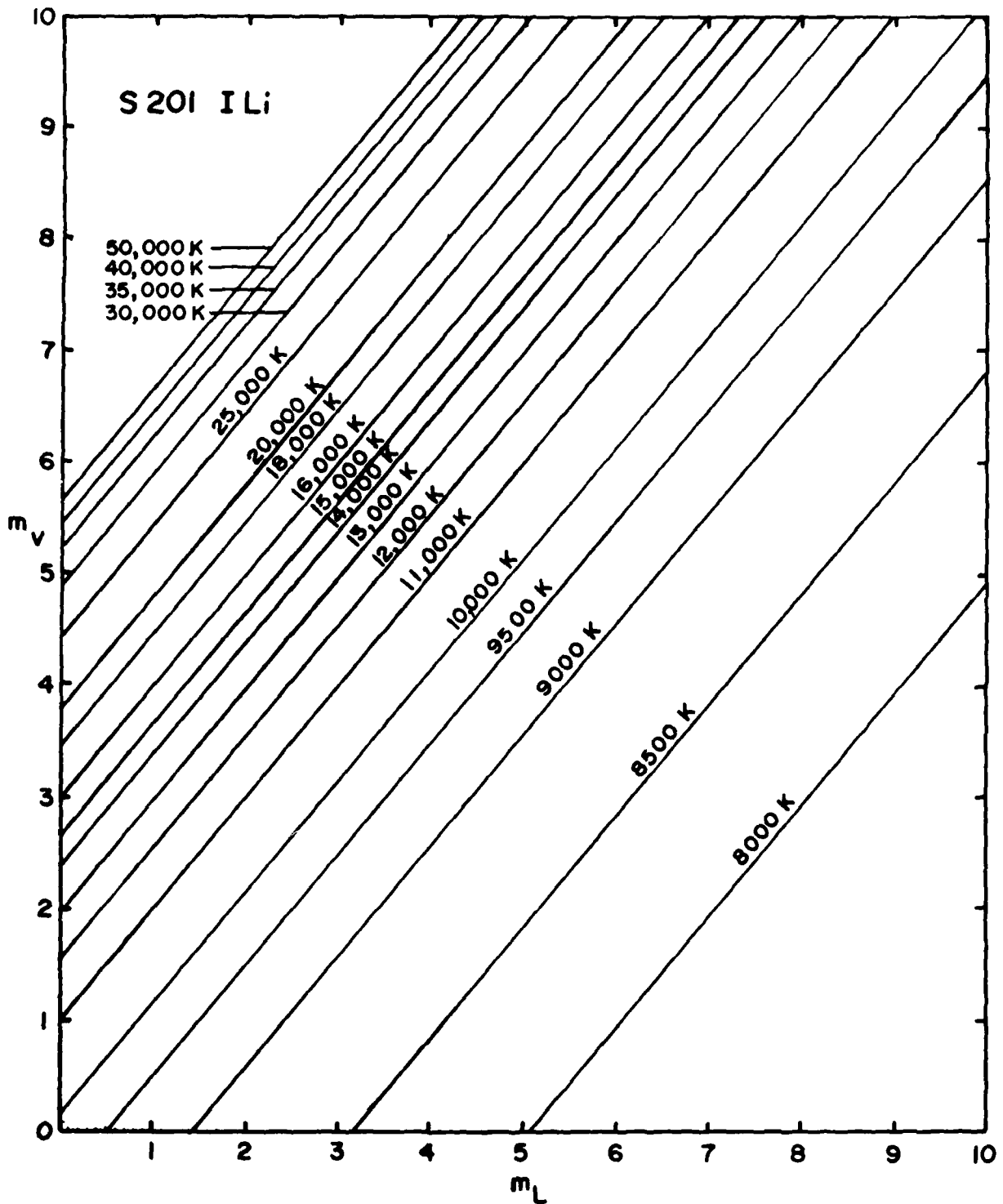


Fig. 36 — Theoretical relationship between UV magnitude in the I Li mode ( $m_L$ ) and the visual magnitude ( $m_v$ ) based on model atmosphere predictions and S201 preflight calibrations



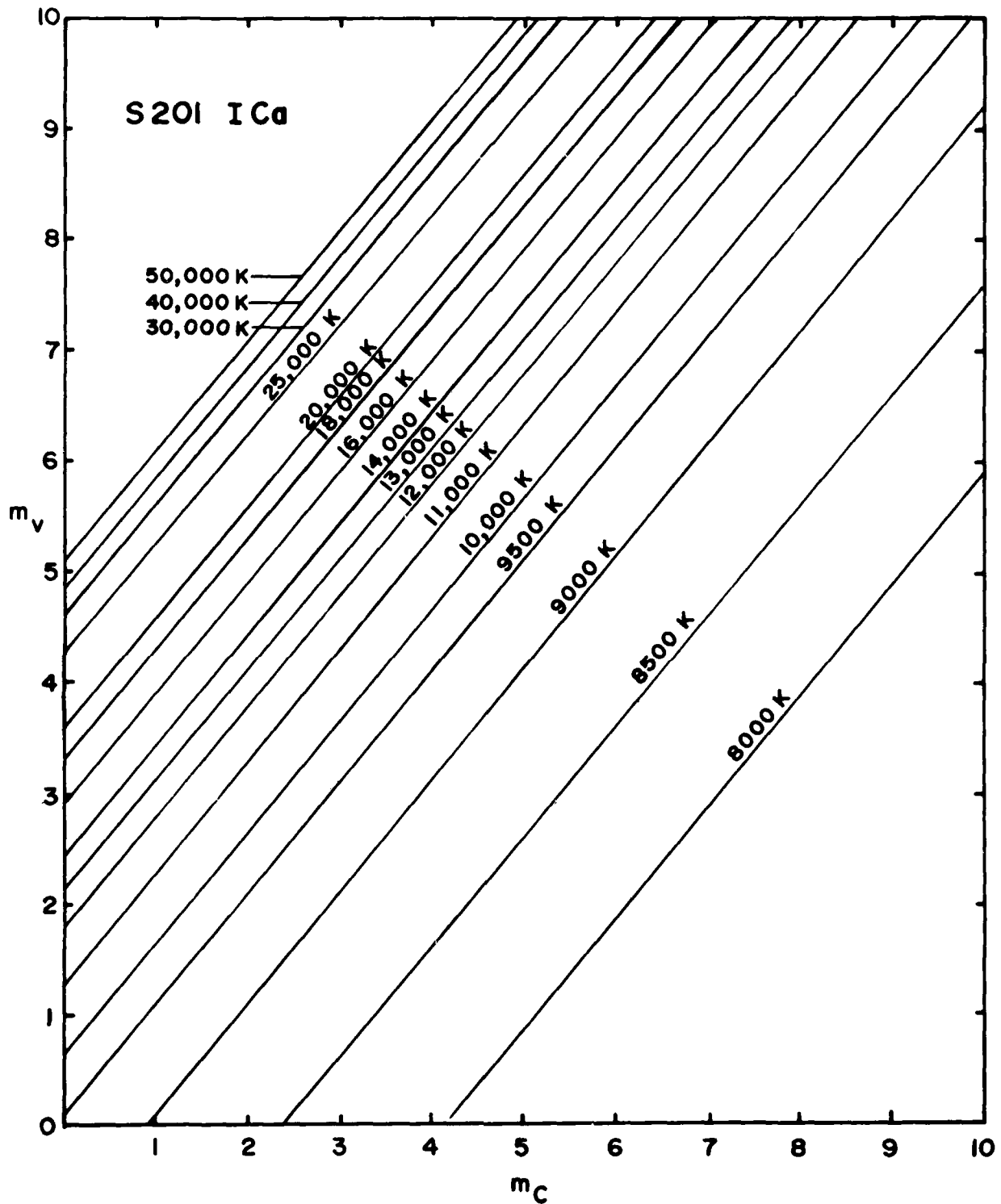


Fig. 37 — Theoretical relationship between UV magnitude in the ICa mode ( $m_c$ ) and visual magnitude ( $m_v$ ) based on model atmosphere predictions and S201 preflight calibration

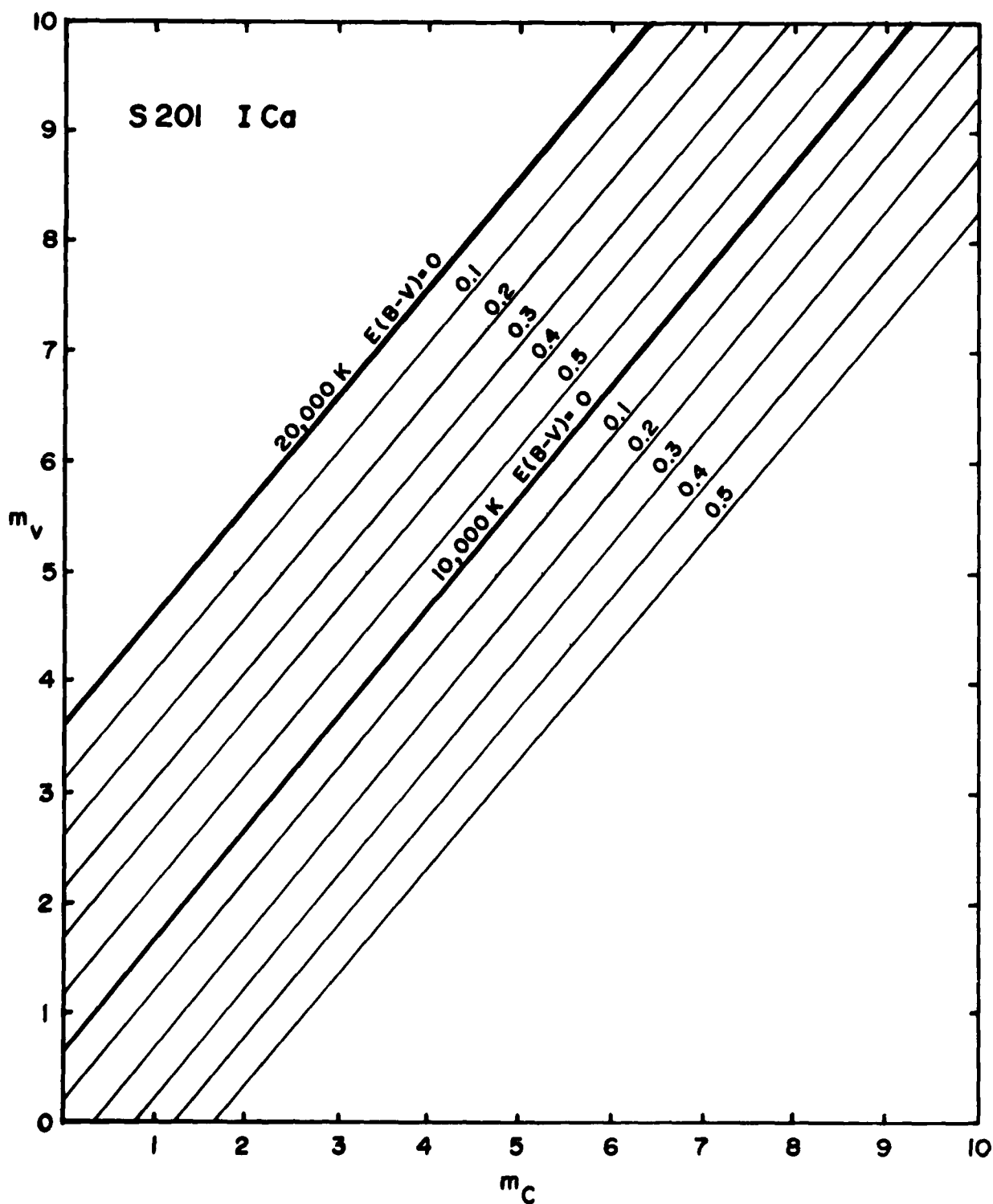


Fig. 38 — Effect of varying amounts of interstellar reddening on the relationship shown in Fig. 37, for effective temperatures of 10,000 K and 20,000 K

Table 7 — Effective Temperature as a Function of Spectral Type for Main-Sequence Stars [17,18]. The constants A and B are included in anticipation of their use in Eq. (13).

Type	$T_e$	A	B
O7	35,400	7.77	7.13
B0	31,400	7.61	7.09
B1	26,000	7.43	6.96
B2	22,700	7.27	6.81
B3	18,100	7.01	6.59
B5	14,800	6.67	6.30
B7	12,900	6.39	6.18
B8	11,300	6.09	5.86
B9	10,400	5.82	5.62
A0	9,500	5.43	5.30
A1	9,250	5.24	5.10
A2	9,000	5.03	4.91
A3	8,800	4.81	4.70
A5	8,100	3.81	3.71

Comparison of our far-UV data with ground-based data is difficult because of the incompleteness and/or doubtful accuracy of the available ground-based data (spectral classifications and ultraviolet-blue-visual, or UBV, photometry) for most stars in the visual magnitude range fainter than 7.0. The only all-sky catalog of such data (extending to  $m_v \approx 10.0$ ) available to us was the SAO Catalog [11]. The visual magnitudes and spectral types given in the SAO Catalog are based on the *Henry Draper* catalog; these often differ markedly from more modern determinations in specific regions of the sky, such as Orion. For most stars, it is not possible to determine the interstellar reddening,  $E(B - V)$ , from the data given in the SAO Catalog. Also, the SAO Catalog does not include the intermediate classifications A1, B7, and B1. As indicated by Fig. 35, the measured density-volume is a particularly sensitive function of effective temperature for  $T_e$  less than 10,000 K (spectral types B9 and later). Therefore, it is likely that much of the scatter in the plots of  $m_U$  versus visual magnitude  $m_v$ , and many of the apparent high and low deviants, are due to errors in classification and/or due to interstellar extinction.

An alternate explanation, particularly for objects identified with SAO stars of relatively late spectral type, is that the object is misidentified; that is, it is not the SAO star but rather a visually fainter, but much hotter, object which is in the near vicinity of the SAO object or which is a binary companion of it. (Many examples of previously unknown hot white dwarf or subdwarf companions of visually more luminous, but cooler stars have been discovered in other surveys, such as the S019 Skylab experiment [19], and with the International Ultraviolet Explorer.) Also, many of the NOs may be hot companions of known SAO stars which were not listed due to their late spectral type (later than A5), or perhaps the NOs may be SAO stars erroneously classified later than A5 which are in fact much hotter.

Figure 39 shows the percentages of SAO stars detected in two fields (Cygnus and Norma) plotted against visual magnitude for various spectral types. As we noted, we expect to detect images of density-volume as small as 80 units summed over four or more pixels, with corrected density-volume  $V_c = 290$ . On a 10-min ICA frame, this corresponds to UV-magnitude  $m_U = 9.5$ . According to the curves of  $m_v$  versus  $m_U$  (Figs. 17, 19, 21, 23, 25, 27, and 29) based on the unreddened theoretical models and preflight calibration, a UV magnitude  $m_U = 9.5$  corresponds to  $m_v = 9.5$  for an A0 star ( $T_e = 9500$  K) and  $m_v = 14$  for a B8 star ( $T_e = 11,300$  K). These are 1.7 and 2.0 magnitudes fainter

Table 8 — Stars with High Far-UV Flux

Field	Catalog Numbers	SAO No.	Spec. Type	Magnitude		No. of Frames		Density-Volume/Exposure			
				Visual	Photo	ILi	ICa	Mean Measured		Unreddened Model	
								ILi	ICa	ILi	ICa
Cyg	22-26	70367	B9	6.44		2	3	2506	1862	1804	1128
Cyg	27-31	70380	B9	8.30	8.00	2	3	314	440	328	207
Cyg	112-117	70539	A0	7.60	7.10	2	3	772	673	253	188
Cyg	128-132	70555	B8	8.50	8.30	2	3	951	672	508	299
Cyg	180-183	70633?	B9	7.70	7.70	1	3	411	407	568	357
Cyg	198-202	50189	A2	7.40	7.50	2	3	956	751	121	92
Cyg	215-219	70659	A0	7.24		2	3	317	367	353	262
Cyg	230-234	50226	B9	6.89		2	3	2310	1403	1194	754
Cyg	251-255	50253	B8	6.79		2	3	1930	1338	2438	1435
Cyg	284-288	70721	B9	7.50		2	3	453	409	683	431
Cyg	333-336	50358	A0	8.20	7.40	1	3	203	234	146	109
Cyg	361-365	50390	B8	6.23		2	3	4385	3005	4073	2398
Cyg	368-372	70837	A2	8.50	7.90	2	3	774	522	44	34
Cyg	373-377	70844	A0	8.00	7.80	2	3	209	260	176	130
Cyg	382-386	50411	B8*	8.50	7.70	2	3	1081E	990E	508	299
Cyg	414-418	70931	B8	7.51		2	3	1763	1203	1260	742
Cyg	432-436	50468	B9	7.70	7.10	2	3	542	566	568	359
Cyg	448-454	70968	A0	5.70		3	3	3481	2867	1448	1074
Cyg	460-464	50491	A0	8.20	7.60	2	3	206	267	146	109
Cyg	484-488	70994		8.70	8.70	2	3	681	426	0000	0000
Cyg	554-558	50556	B8	7.70	7.80	2	3	1052	592	1059	623
Cyg	573-577	71065	B9	7.70	7.10	2	3	1103	799	568	359
Cyg	580-584	50573	B8	8.30	8.50	2	3	321	308	611	360
Cyg	621-625	71101	A0	7.80	7.60	2	3	241	336	211	157
Cyg	678-681	50664	A3	8.70	8.70	1	3	97	95	22	17
Cyg	718-722	50681	B9	7.00		2	3	1233	920	1000	681
Cyg	729-733	71191	A0	8.40	8.30	2	3	297	224	122	90
Cyg	864-868	71383	A5	8.30	8.50	2	3	137	137	3.2	2.6
Cyg	919-922	50998	A0	8.00	7.50	1	3	193	243	176	130
Cyg	957-961	51041	B9	8.70	8.00	2	3	297	348	227	143
Cyg	968-971	51057	A0	8.20	7.70	1	3	161	217	146	109
Cyg	1050-1054	71625		8.90	8.70	2	3	692	521	000	000
Cyg	1157-1160	51388	A3	8.90	8.70	1	3	168	160	18.5	14
Cyg	1169-1173	71828	B9	9.00	8.00	2	3	145	174	173	109
Cyg	1226-1229	71942?		9.10	9.50	1	3	242	155	000	000
Cyg	1263-1267	51636	B9	7.60	7.50	2	3	351	481	623	393
Cap	84-88	145278	B8	5.68		2	3	6280	3700	6743	3971
Cap	98-101	164359	B8	8.30		1	3	898	508	611	360
Cap	118-122	145483	B9	8.10		2	3	265	282	394	249
Cap	131-135	164528	B9	7.30		2	3	642	560	820	578
Cap	137-140	145541	A0	8.70		1	3	170	154	93	69
Cap	172-176	164717	B9	6.50		2	3	367	1173	1708	1078
Cet	60-64	168376	B9	6.90		2	3	1638	1126	1184	747
Gru	25-27	192692?	B8		10.10	0	3	—	293	000	000
Pav	19-20	246739	A5	10.16		1	1	129	50	0.6	0.46
Pav	23-25	246786	B9	6.46		2	1	1819	1426	1772	1118
Pav	65-67	247190	B9	6.74		2	1	1000	837	1371	865
Men	10-13	256025	A0	6.54		2	2	1129	969	671	497
Men	78-79	249120	A2	7.79		0	2	—	143	85	64
Men	435-438	HD269696	B	10.7		2	2	405	182	000	000
Men	804-807	249747	B8	7.88		2	2	908	453	898	529
Nor	147-150	243995	B8	9.10	8.84	2	2	322	453	293	173
Nor	239-242	253688	A0	5.30		2	2	3027	2902	2090	1549
Nor	295-298	244208	B9	7.29		2	2	1086	516	828	522
Nor	343-346	244285	A0	6.16		2	2	1666	1282	950	704
Nor	550-553	244579	B8	9.00	8.61	2	2	250	181	322	189
Nor	643-646	227944	B8	6.95		2	2	2200	1779	2105	1240
Nor	725-728	244866	A0	6.43		2	2	1616	1086	742	550
Nor	773-776	245020?	A0	10.00	9.93	2	2	68	192	28	21
Nor	861-864	245361	A0	7.70	7.30	2	2	231	290	232	172
Nor	865-868	245368	A0	8.81	8.32	2	2	181	181	84	62

(Table continues.)

Table 8 (Concluded) — Stars with High Far-UV Flux

Field	Catalog Numbers	SAO No.	Spec. Type	Magnitude		No. of Frames		Density-Volume/Exposure			
								Mean Measured		Unreddened Model	
				Visual	Photo	ILi	ICa	ILi	ICa	ILi	ICa
Nor	874-877	245405	B8*	7.21		2	2	3648	2208	1659	977
Nor	878-881	245411	B9	7.73		2	2	610	515	553	349
Nor	883-886	245441	B9	7.56		2	2	569	515	646	408
Aqr	214-223	165696	B8*	8.40		4	6	1283	889	557	328
For	28-31	149063	A0	5.32		2	2	8520	5670	2052	1521
Sgr W	185-184	186085	A0*	8.90		1	3	50	270	77	57
Sgr W	260-264	186156	B8	7.86		2	3	1150	853	914	538
Sgr W	398-402	209691?	B8	7.80		2	3	867	827	966	569
Sgr W	431-435	186268	B9*	8.10		2	2	3745	1815	394	249
Sgr W	467-471	186286	A0	7.33		2	3	546	451	325	241
Sgr W	544-547	209758?	A0	9.00	8.70	1	2	313	132	70	52
Sgr W	551-553	186340	B9	9.50		1	2	915	589	109	69
Sgr W	588-589	186360	B9*	9.30		1	1	133	364	131	83
Sgr W	681-686	209817	B5	6.24		2	4	7263	4992	15,343	6545
Sgr W	720-723	186432	A0*	8.90		1	3	163	104	77	57
Sgr W	746-750	209841	B8	7.11		2	3	1158	840	1818	1071
Sgr W	822-826	186481	B9	8.20		2	3	340	355	359	227
Sgr W	874-878	186505	B9	7.50		2	3	580	424	683	431
Sgr W	918-920	209906?	A0	9.66	9.58	1	2	232	69	38	28
Sgr W	962-965	186549	B8	8.50		1	3	507	184	508	299
Sgr W	1079-1082	209964	B9	9.52	9.33	1	3	130	73	107	68
Sgr W	1099-1102	186608	B8	8.00		1	3	1582	378	804	473
Sgr W	1103-1106	209970	B8	9.09	8.53	1	3	451	211	296	174
Sgr W	1213-1217	210005	B9	6.72		2	3	1195	789	1396	881
Sgr W	1222-1226	210008	B8	9.42	9.03	1	3	148	95	219	129
Sgr W	1248-1251	186684	A0	8.80		2	2	3819?	33	84	63
Sgr E	46-51	210135	B8	6.38		2	4	2597	1641	3550	2090
Sgr E	89-91	210165	A0	10.20	9.78	1	2	50	64	23	17
Sgr E	114-117	210188	B9	7.90	7.44	1	3	572	425	473	299
Sgr E	407-411	210378	B8	7.93	7.30	2	3	618	420	857	505
Sgr E	423-427	187070	B9	9.40		2	3	1212	541	120	76
Sgr E	443-446	210397	B8	8.92	8.49	1	3	493	277	346	204
Sgr E	447-452	187080	B9	5.75		2	4	3094	1724	3396	2143
Sgr E	512-516	210464	B9	8.87	8.37	2	3	306	157	195	123
Sgr E	523-527	210478	B8	7.76	7.11	2	3	868	619	1002	590
Sgr E	537-541	210488	B8	7.09		2	3	1905	1227	1852	1090
Sgr E	626-630	210570	B9	6.95		2	3	805	673	1131	713
Sgr E	651-655	210581	A0	6.97		2	3	660	624	452	335
Sgr E	662-666	210588	B8	7.45	6.80	2	3	1424	524	1331	784
Sgr E	740-744	210704	A0	8.54	8.00	2	3	402	235	107	79
Sgr E	987-990	211001	B5	9.52	8.91	1	3	2625?	173	759	324
Sgr E	1073-1077	211148	B8	7.52		2	3	1224E	802	1248	735

\*Modern (MK) spectral types and other pertinent data are tabulated below for the objects which have erroneous HD spectral types:

Object Number	SAO	HD	DM (Durchmusterung)	$m_b^+$	$m_v^+$	Spectral Type†		Remarks‡
						HD	MK	
Cyg 383-387	50411	200776	BD +45° 3384	7.8	7.8	B8	B1 IVp	= LS III + 46° 41
Nor 874-877	245405	167806	CPD -59° 7256	7.0	6.9	B8	B2 V	
Aqr 214-223	165696	220787	BD -11° 6076	8.3	8.4	B8	sdB3p	
Sgr W 181-184	186085	164087	CD -28° 14005	8.7	9.3	A0	B1 Ib	
Sgr W 428-431	186268	165246	CD -24° 13880	7.7	8.2	B9	08 Vn	= LS 4646/ADS 11049 AB (LS 4644 + LS 4643 4'5 and 4'8 away)
Sgr W 583-584	186360	165872	CD -23° 13974	9.8	9.7	B9		= ADS 11092 AB/IC (reflection nebula)
Sgr W 717-720	186432	166397	CD -29° 14623	9.5	9.2	A0	B8 Ia	

† Apparent blue and visual magnitudes are homogenized (F. Ochsenbein, 1974, Astron. Astrophys. Suppl. 15, 215).

‡ HD spectral types are from the 1979 edition of the Catalog of Stellar Identifications (Strasbourg Observatory). MK spectral types are from W.P. Bidelman, Case Western Reserve, private communication (1978).

§ Alternate designations (other than SAO, HD, DM) listed in this column are from the catalogs listed in the notes to Table 2.

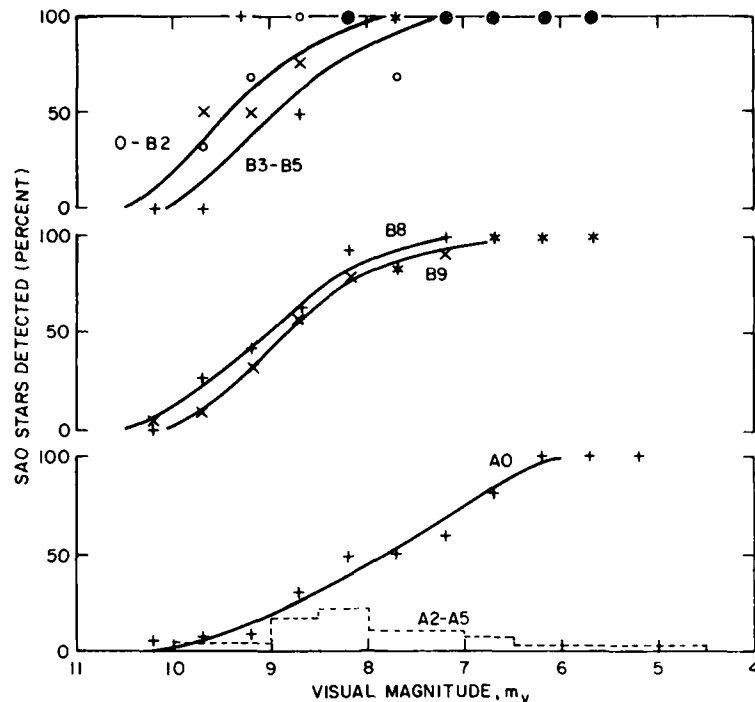


Fig. 39 — Percentage of SAO stars detected in two fields (Cygnus and Norma) by the STAR DETECTION program, as a function of SAO spectral type and visual magnitude

than the 50%-detection limits, and the discrepancy becomes larger for earlier spectral types. For O-B2 stars ( $T_e \geq 20,000$  K), half are detected at visual magnitude 9.5; however, the SAO Catalog is probably not complete at this visual magnitude.

When one compares the observed plots of UV magnitude versus visual magnitude with the expectations, one notes that the spread within each of the groups O-B2, B3, and B5 is considerably larger than the differences between the averages for each group. This is particularly true for the fainter stars ( $m_v \geq 7$ ), which tend to be more faint in the ultraviolet relative to the visible in comparison to brighter stars of the same spectral type. This indicates that interstellar extinction is a major contributor to this spread. However, errors in SAO spectral types and visual magnitudes probably also are larger for the visually fainter stars; we have noticed that fainter SAO stars tend to be systematically classified later than in more modern determinations. On the other hand, particularly in the O-B2 subgroup, several stars have UV magnitudes brighter (relative to visual magnitude) than that corresponding to unreddened stars with  $T_e = 50,000$  K! In these case, misidentifications seem unlikely, but there may be contributions to the observed UV brightness by unlisted fainter early-type stars and/or unresolved reflection nebulosity in close association with the SAO object.

For the subgroups later than B5, there is reasonable agreement with the expected effective temperatures and somewhat less deviation from the mean values. This indicates lesser effect of interstellar extinction, which is not unexpected, since these less luminous stars are on the average closer and less likely to be associated with dense concentrations of interstellar material. However, particularly for the fainter stars, there is a large spread toward higher (indicated) effective temperatures than expected for these stars. This could be due to previously unknown hot white dwarf companions or to errors in the spectral types and/or visual magnitudes.

For stars of spectral type A0 and later, classification errors and unresolved hotter companions are particularly significant sources of scatter in the plots of UV magnitude versus visual magnitude, because of the extreme sensitivity of the measured UV magnitude to effective temperature below 10,000 K, as was mentioned. The peculiar curve for A2 to A5 stars in Fig. 39 is perhaps due to fainter stars being systematically misclassified later than the brighter ones of the same actual effective temperature. In other words, most of the "A2 to A5" stars detected in the visual magnitude range above 7.0 probably are of earlier spectral type or have hotter companions not resolved in the ground-based observations.

### COMPARISON WITH CELESCOPE CATALOG STARS

Over 100 stars are common to this Revised S201 Catalog and the Telescope Catalog [20], which gives UV magnitudes in two bands: U2 (approximately 1650 to 3000 Å) and U3 (approximately 1400 to 1850 Å). Figure 40 is a plot of S201  $m_c$  from 3-, 10-, 30-, and 3.7-min ICa frames (passband from 1250 to 1600 Å) versus Telescope U3 magnitude, and Fig. 41 is a plot of  $m_L$  from 1- and 3-min. ILi frames (passband from 1050 to 1600 Å) versus U3 magnitude. The correlation with U3 is good, although the zero point differs by over 4 magnitudes, and is somewhat better with  $m_c$  than with  $m_L$ . Since there is no overlap between the S201 passbands and the Telescope U2 passband, their correlation is poor, and a comparison is not shown, as it would have little meaning.

### COMPARISON WITH OAO-2 FILTER PHOTOMETRY CATALOG STARS

There are 23 stars common to this Revised S201 Catalog and the OAO filter photometry catalog [13]. These are listed in Table 9, where spectral type (column 2) and  $m_v$  (column 3) are from Ref. 13, rather than from the SAO Catalog [11] and as listed in this Revised S201 Catalog. Column 5 gives the ILi exposure times, and column 6 gives the highest measured density-volume. Column 7 gives the mean  $m_L$  for each star, and column 8 gives the extrapolated OAO magnitude at 1300 Å from the published values at 1550, 1430, and 1330 Å. Error of the mean  $m_L$  values are mean deviations from the two or three exposures noted in column 4; errors of the OAO  $m_{1300}$  are based on the extrapolation (sometimes with no 1330 Å value). Columns 9 through 12 give similar data from the ICa frames for comparison with OAO  $m_{1400}$ .

In Fig. 42 the mean values of  $m_L$  are plotted against the OAO  $m_{1300}$  values, with error bars indicating the mean deviations. In four cases (SAO 50359, 246574, 230992, and 194902) the image was at the edge of the S201 field, so that part of the density-volume was lost, and the  $m_L$  is an upper limit to the true value. When this is taken into account, Fig. 42 shows good correlation with OAO  $m_{1300}$  but with a zero-point difference of +0.5 magnitude. Figure 43 shows a similar plot of  $m_c$  versus OAO  $m_{1400}$  from Table 9. Here again four images are at the edge of field (SAO 50359, 163771, 230992, and 194902), and there is a zero-point difference of 0.4 magnitude. We conclude then that on the average both  $m_L$  and  $m_c$  values in column 18 of the Revised S201 Catalog listing are probably 0.45 magnitude too high. We consider this to be perhaps due to degradation of the S201 photocathode between the preflight calibration at NRL in early April and the exposures on 21 to 23 April 1972.

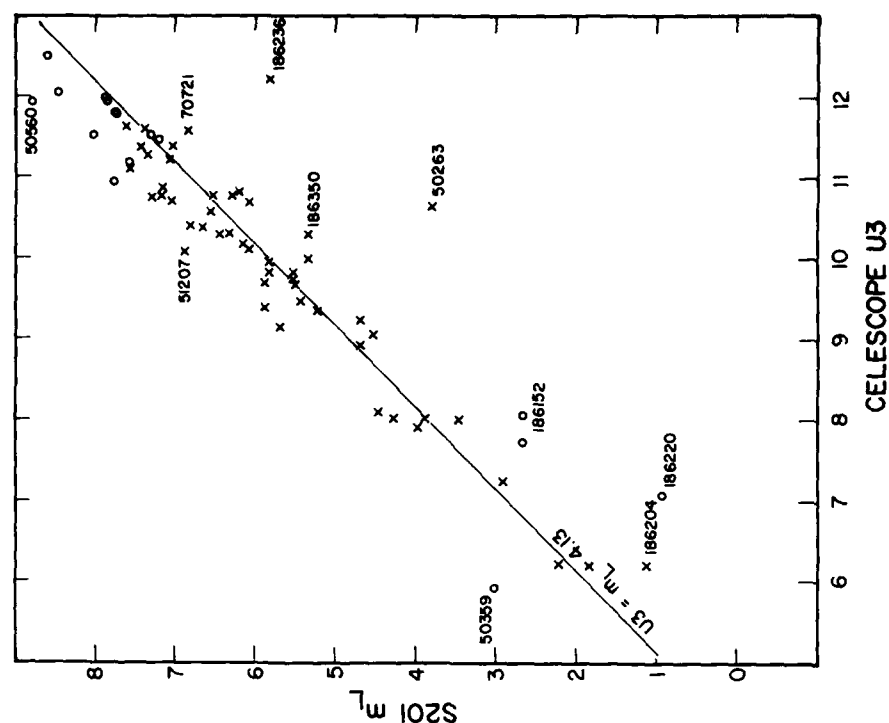


Fig. 41 — Comparison of S201 ultraviolet magnitudes  $m_L$  (1Ca mode, effective wavelength 1400 Å) with Celestcope U3 magnitudes (effective wavelength approximately 1600 Å)

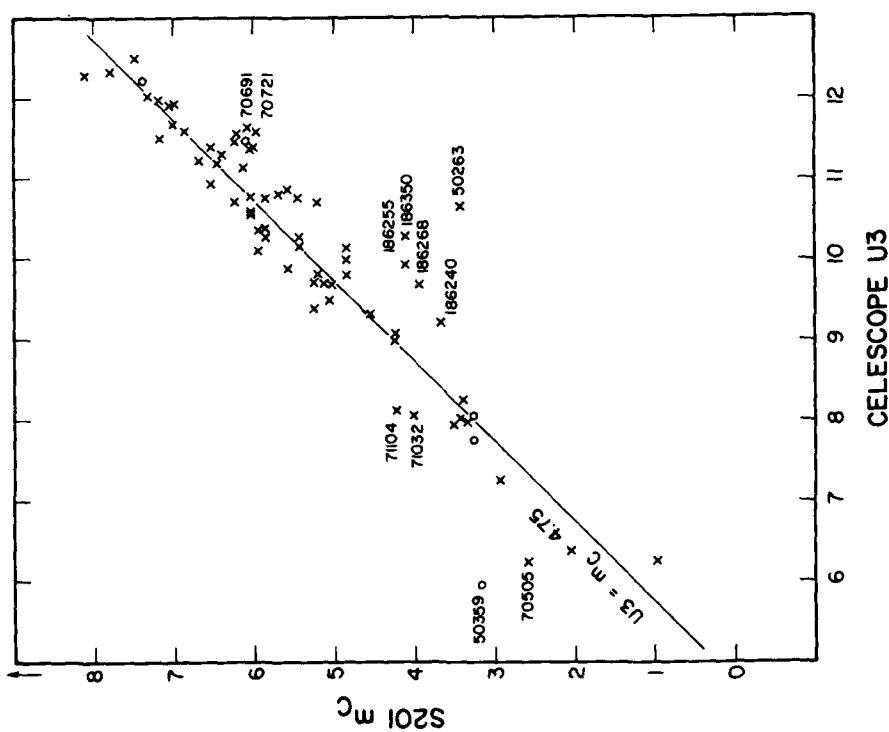


Fig. 40 — Comparison of S201 ultraviolet magnitudes  $m_C$  (1Li mode, effective wavelength 1300 Å) with Celestcope Catalog [20] U3 magnitudes (effective wavelength approximately 1600 Å)



Table 9 — OAO-2 Stars [13] in the Revised S201 Catalog. An "E" in the density-volume columns indicates that part of the density-volume was lost because the image was at the edge of the field of the S201 camera.

(Field) and SAO No.	Spec. Type	Visual Mag.	B - V	ILi Exp. (min)	Max. ILi D-Vol	Mean $m_L$	OA0 $m_{1300}$	ICa Exp. (min)	Max ICa D-Vol	Mean $m_C$	OA0 $m_{1400}$	Remarks
(Cyg)												
10505	B5 V	4.52	-0.12	1/4.1.3	26832	2.47±0.33	2.21±0.05	3.10.3.7	48912	2.61±0.30	2.17±0.05	—
50180	B5 V	4.77	-0.14	1/4.1.3	35659	2.25±0.36	1.95±0.05	3.10.3.7	52215	2.43±0.33	2.05±0.05	—
50263	O6	5.96	+0.05	1/4.1.3	14792	3.90±0.98	3.76±0.05	3.10.3.7	26865	3.41±0.01	3.69±0.05	N. Am. Neb. near
50359	B1 Vn	5.38	-0.22	1/4.1.3	18720E	3.15±0.53	1.50±0.11	3.10.3.7	29214E	3.18±0.13	1.71±0.11	SAO50390 near
71173	B2 Ve	4.42	-0.10	1/4.1.3	40522	2.10±0.28	1.23±0.08	3.10.3.7	69627	2.22±0.24	1.39±0.08	—
50690	O8n	4.99	-0.02	1/4.1.3	32004	2.35±0.25	1.86±0.03	3.10.3.7	48507	2.64±0.20	1.93±0.03	In HII region
71329	B0 Ib	5.89	-0.06	1/4.1.3	8400	4.04±0.29	3.02±0.01	3.10.3.7	20836	3.80±0.06	3.03±0.01	—
(Cap)												
163771	B6 III	5.3	—	1.3	16660	2.64±0.32	2.87±0.2	3.10.30	72000E	3.16±0.57	2.87±0.2	—
164043	A0p	6.2	—	1.3	1964	5.56±0.43	5.07±0.1	3.10.30	24146	5.07±0.16	4.97±0.1	—
(Cet)												
148385	B9 V	4.89	-0.02	1.3	6576	4.73±0.16	4.09±0.04	3.10.8.4	13047	4.37±0.10	4.00±0.04	—
148575	B7 V	4.25	-0.14	1.3	19729	3.16±0.23	1.98±0.01	3.10.8.4	38604	3.05±0.13	1.98±0.01	—
(Pav)												
246574	B2.5 V	1.94	-0.20	1.3	322894E	-0.06±0.00	-1.67±0.09	3	33370	-1.09±?	-1.50±0.09	—
270992	B7 IV	1.74	-0.13	1.3	23600E	3.29±0.28	-0.64±0.04	3	19800E	2.39±?	-0.71±0.04	—
(Men)												
249368	B6 V	5.11	-0.14	1.3	14030	2.90±0.30	2.89±0.05	1/2.3.10.30	44190	3.24±0.30	2.80±0.05	—
249461	B8 V	5.06	-0.08	1.3	5205	4.46±0.12	4.09±0.10	1/2.3.10.30	25104	4.23±0.17	3.91±0.10	—
(Nor)												
244133	B0.5 Ia	5.56	-0.08	1.3	16293	2.63±0.18	2.39±0.02	3.4.1	17042	3.05±0.10	2.42±0.02	SAO244122 near
244226	B1 Ib	3.34	-0.13	1.3	74674	1.05±0.38	-0.15±0.38	3.4.1	82468	1.21±0.02	-0.01±0.08	SAO244669 near
(For)												
168634	B8 V	4.28	-0.12	1.3	25176	2.79±0.09	2.47±0.2	1/2.3.0.3	17696	2.45±0.33	2.47±0.2	—
194467	B5 IV	5.00	-0.16	1.3	24997	2.84±0.10	2.00±0.10	1/2.3.0.3	18368	2.44±0.29	2.15±0.10	—
194608	B6 V	5.11	-0.13	1.3	25934	2.81±0.00	2.32±0.15	1/2.3.0.3	18971	2.56±0.22	2.45±0.07	—
169017	A0 III	4.66	-0.14	1.3	10236	4.05±0.34	3.68±0.25	1/2.3.0.3	7614	3.64±0.27	3.48±0.12	—
194902	B8.5 V	3.55	-0.12	1.3	23640E	3.07±0.63	1.87±0.2	1/2.3.0.3	29796E	2.02±0.42	1.87±0.2	—
(Sgr-W)												
210091	B9 IV	1.85	-0.03	1.3	25986	2.29±0.32	2.05±0.27	1/2.3.10.30	122476	2.22±0.54	1.83±0.14	SAO210088 near

$$\text{Mean } (m_L - m_{1300}) = 0.49 \quad \text{Mean } (m_C - m_{1400}) = 0.40$$

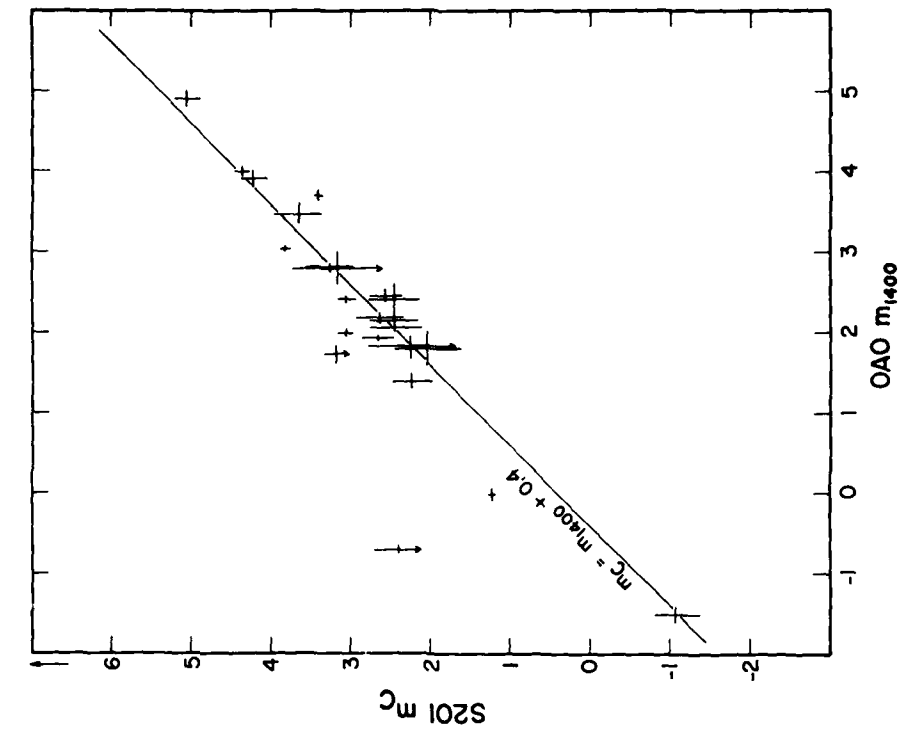


Fig. 42 — Comparison of S201  $m_L$  (1300 Å) magnitudes with UV magnitudes from the University of Wisconsin OAO-2 catalog [13] extrapolated to 1300 Å

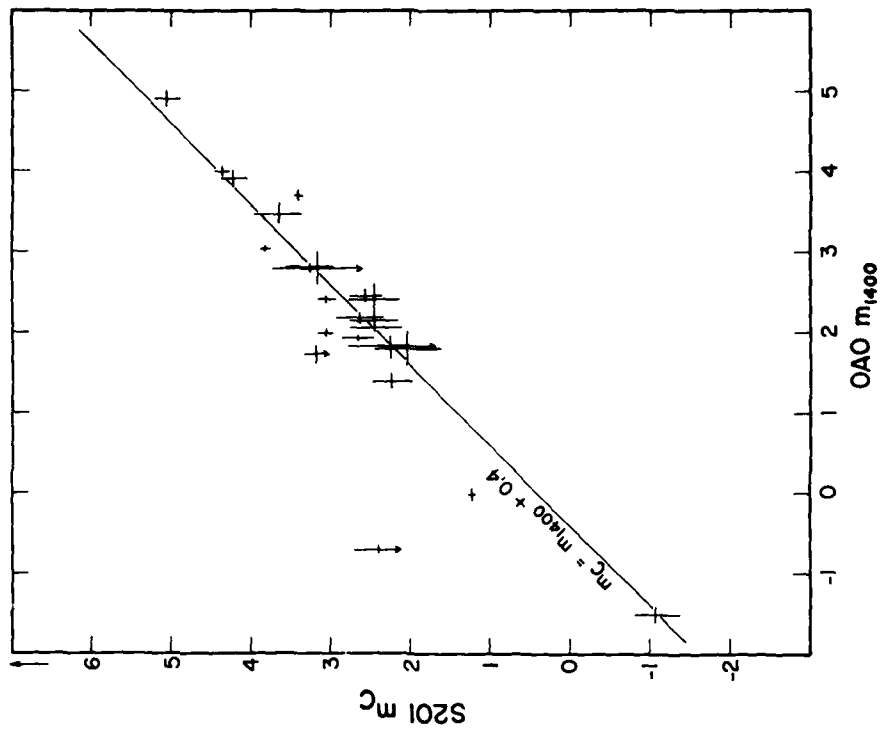


Fig. 43 — Comparison of S201  $m_C$  (1400 Å) magnitudes with UV magnitudes from the University of Wisconsin OAO-2 catalog extrapolated to 1400 Å

## OTHER EXPECTED FAR-UV SOURCES

The goals of the S201 experiment included detecting (in addition to stars) nebulae, galaxies, x-ray sources, and Lyman- $\alpha$  emission from intergalactic hydrogen in clusters of galaxies. Most such sources were not detected by the STAR DETECTION computer program, because faint images were rejected unless they had four or more pixels at least 20 units above background. To measure the far-UV flux from such objects, or to determine more sensitive upper limits than possible using the STAR DETECTION program, mosaics were prepared of the density  $D_L$  corrected for nonlinear response as in Eq. (3).

The celestial coordinates ( $\alpha, \delta$ ) 1950 of the expected far-UV sources were converted to scan coordinates  $x, y$  on each frame, and the  $D_L$  mosaic was inspected near  $x, y$ . If there was a maximum ( $P$ ) in  $D_L$  near  $x, y$ , this was assumed to be the center of the expected image. Tables 10 through 19 list the density-volumes  $V$  within the expected size of these images ( $\Delta x \Delta y$  in rasters), together with the background  $BG$  where  $BG$  is the average of the  $D_L$  values on the four sides of the  $\Delta x \Delta y$  area. Many of these density-volumes are small, within the background noise, but they represent upper limits to the far-UV flux from each object. Since the density-volumes were determined manually from the mosaic printouts, they do not require a truncation correction. The appropriate background level to be subtracted from the image was determined by hand-plotting  $D_L$  versus  $x$  and  $D_L$  versus  $y$  over distances large compared to the expected extent of the image. The limiting sensitivity is a function of the background level (and its associated shot noise) as well as the image surface brightness and total angular extent. Catalogs used for celestial coordinates were the RNGC [21], Catalogue of Galactic Planetary Nebulae [22], the AS&E Catalog of X-ray Sources [23], Abell's Catalog of Clusters of Galaxies [24], the Optical Catalog of Quasi-Stellar Objects [25], de Vaucouleurs' Catalog of Bright Galaxies [26], and Zwicky's catalogs [27].

Column 2 of Tables 10 through 19 uses the abbreviations "Plan. neb." for planetary nebula, "Neb." for nebula, "X-ray" for x-ray source, "Glob. cl." for globular cluster, "HII" for HII region, "gal." for galaxy, "Com." for compact, "WR" for Wolf-Rayet star, "QSO" for quasi-stellar object, and "Irr." for irregular. Column 4 lists the adopted image size in rasters (1 raster = 1.19 arc-min). A faint stellar image, less than 3 arc-min diameter, is two by two rasters. Column 5 shows the number of pixels (picture elements) summed to get the density-volumes  $V$ , in columns 11 and 15 (and 19, 23, and 25 when present). Columns 8 and 12 (and 16, 20, and 25 when present) list the scan coordinates  $x, y$  of the maximum-density ( $P$ ) pixel assumed to be the image center, generally within two or three rasters of the calculated position for the celestial coordinates given in columns 6 and 7.

### Nebulae and Globular Clusters

From Table 10, NGC 6992, the northeastern half of the Cygnus Loop, and NGC 7000, the North America Nebula, show clearly on only one frame, A27, a 10-min exposure with  $\text{CaF}_2$  filter, with a passband from 1250 to 1600 Å. Also the HII region around 68 Cyg is divided in two parts, excluding the star image: 68 Cyg W (west of the star) and 68 Cyg E. These three (or four) objects were described qualitatively in Ref. 6. The other objects listed in Table 10 are down in the background noise except for the globular cluster NGC 7044 and the planetary nebula A78, for which the values of  $V$  increase with exposure time (1, 3, and 10 min on frames A22, A23, and A27) as they should. However, A78 is close to the star SAO 71483, a 7.21-magnitude A0 star 8 arc-min away. Twenty-seven other planetaries are listed in Tables 18 and 19, particularly NGC 1360, which is prominent on three frames, and M2-36, prominent on five frames.

From Table 11, the bright (7'.5) planetary nebula NGC 7009 is clearly detected, and the 9'.3 globular cluster NGC 6981 is probably detected. The earth and geocorona were also measured on these frames.

Table 16 shows that the globular cluster NGC 6362 lies close to a large NO in Norma, whose full extent is shown in the Catalog Listing (object numbers 678 to 680). Table 19 shows that other globular clusters, NGC 6626 and NGC 6656 in Sagittarius, are prominent in all the frames and that the "x-ray burster," NGC 6624, is somewhat erratic, along with NGC 6553, NGC 6637, NGC 6638, and NGC 6723.

There are two nebulas in Sagittarius with strong far-UV flux: NGC 6523 (M8) and NGC 6559. However, the contribution of the diffuse nebulosity is not really distinguishable from that of the associated early-type stars at our resolution. Two x-ray sources (ASE 1757) are strong on frames A119 and A203 in Table 18, but on frame A204 one is off the field and the other is merged with SAO 209568 (an 8'.31 B2 star). Two others (ASE 1820 and ASE 1822) are also detected.

### Galaxies and QSOs

Table 12 shows that the elliptical galaxy NGC 1172 is detected, and Table 13 shows definite detection of NGC 55, NGC 7424, NGC 7552, IC 5332, and NGC 7793. Figure 44 is part of the  $D_L$  mosaic of frame A73 with contour lines sketched in around the image of NGC 55. Table 14 shows that two galaxies, NGC 7090 and IC 5152, are detected in Pavo, Table 15 shows that five galaxies are detected in Mensa, Table 16 shows that NGC 6221 and NGC 6300 are possibly detected in Norma, and Table 18 shows that NGC 1365 and NGC 1398 are possibly detected in Fornax.

The overall results of this search are summarized in Table 20. The range of magnitudes of the objects is wide. Perhaps the QSOs (such as listed in Table 11) are too faint to be "expected."

### Intergalactic Hydrogen

The groups of galaxies listed in Tables 12, 13, 14, 16, and 18 (in column 1, which uses "gp" for group) have mass discrepancies of a factor of 10 or more [28]; that is, the dynamical mass of each group is more than 10 times the sum of the normal masses of the galaxies in the group. If this discrepancy were due to intergalactic hydrogen in the group, redshifted Lyman- $\alpha$  emission might be detected. (Redshifts range from  $z = 0.004$  to  $0.008$ .) These groups are generally several degrees in diameter, covering a large fraction of a frame. If they were Lyman- $\alpha$  sources, there would be difference in background inside the group and inside and outside on ILi frames. Therefore, background density at the group center is listed under  $P$ , and the average background density for two or more regions outside the group is listed under  $BG$ . In all cases, except for the Pavo group (Table 14) and possibly the Eridanus and Grus groups (Tables 12 and 13), the ILi difference  $P - BG$  is less than 5 units ( $0.05D$ ), which in a 3-min exposure, corresponds to a Lyman- $\alpha$  surface brightness of 28R (based on the preflight calibration).

The results of the search for Lyman- $\alpha$  emission from groups of galaxies are summarized in Table 21. There are about the same number of positive and negative values of  $P - BG$ . The ICa values are mostly zero, because background is much lower and more uniform on ICa frames, and  $P - BG$  would not be affected by Lyman- $\alpha$  emission. For intergalactic Lyman- $\alpha$  emission to be redshifted sufficiently for detection in the ICa frames, a recession velocity of at least 12,000 km/s ( $z = 0.041$ , or  $\Delta\lambda = 50 \text{ \AA}$ ) would be required. This corresponds to a distance of at least 220 Mpc.

Table 10 — Expected Far-UV Objects in Cygnus.

$$21^h:24^m+37^{\circ}30'$$

$$\pm 50^m \pm 10^{\circ}$$

Object	Type	Ref.	$\Delta x, \Delta y$	Size, Pixels	No. of R.A. (1950)	Dec.	Frame A22, 1 <sup>m</sup> Li			Frame A23, 3 <sup>m</sup> Li			Frame A27, 10 <sup>m</sup> Ca		
							x, y	P	BG	V	x, y	P	BG	V	V
He2-468	Plan. neb.	7	2 x 2	4	20 <sup>h</sup> :39.4 <sup>m</sup>	+34°33'	943,680	61	59	6	939,681	129	127	8	5
NGC6992	X-ray	8	2 x 2	4	20:50	+30:45	824,877	72	61	26	818,869	139	134	15	7
NGC7000	Loop neb.	3	13 x 56*	696	20:54.4	+31:29	—	—	—	—	—	—	—	—	12469
NGC7027	N. Am. neb.	3	29 x 65*	1107	20:57.4	+44:36	—	—	—	—	—	—	—	—	11222
NGC7044	Plan. neb.	7	2 x 2	4	21:05.2	+42:02	701,294	69	63	24	705,297	139	135	18	11
NGC7048	Glob. cl.	6	4 x 4	16	21:11.0	+42:17	656,280	64	60	35	652,280	136	129	49	8
68CygnW	Plan. neb.	7	2 x 2	4	21:12.4	+46:04	673,89	61	56	13	669,92	125	123	9	9
MI-77	HII	3	29 x 34*	561	21:14.5	+43:30	—	—	—	—	—	—	—	—	5089
68CygnE	Plan. neb.	7	2 x 2	4	21:17.3	+46:06	632,83	56	54	3	631,86	122	120	6	5
NGC7062	HII	3	29 x 45*	673	21:19.3	+43:44	—	—	—	—	—	—	—	—	5834
VZw72	Glob. cl.	6	2 x 2	4	21:21.3	+46:10	598,79	55	54	5	593,81	123	121	7	2
VZw71	Com. gal.	12	2 x 2	4	21:30	+29:55	407,882	64	61	9	406,882	125	122	7	4
ASE 2130	Com. gal.	12	2 x 2	4	21:30	+34:18	441,667	69	67	7	435,665	148	144	14	31
IC5117	X-ray	8	2 x 2	4	21:30	+47:02	531,30	55	53	5	529,30	118	117	5	4
Hul-2	WR plan. neb.	7	3 x 3	9	21:30.6	+44:22	504,159	60	56	17	501,162	122	121	5	7
A78	Plan. neb.	7	2 x 2	4	21:31.1	+39:25	464,408	63	62	7	461,410	144	140	13	9
SA071483 <sup>?</sup>	Plan. neb.	7	4 x 5	20	21:33.4	+31:28	386,798	67	61	63	380,799	148	130	141	326
Cyg X-2	A0.7-2	8	2 x 2	4	21:42	+38:05	353,457	63	62	1	349,458	130	128	6	8
SS Cyg	X-ray	8	4 x 5*	15	21:40.7	+43:20	—	—	—	—	405,206	122	117	41	54
	sdBe var.														

\*Irregular area on the mosaic.

Table 11 — Expected Far-UV Objects in Capricorn,

 $21^h 24^m - 14^{\circ} 30'$   
 $\pm 41^m \pm 10^{\circ}$ 

Object	Type	Ref.	Size, $\Delta x, \Delta y$	No. of Pixels	R.A. (1950) Dec.	Frame A40, 1 <sup>m</sup> Li			Frame A46, 30 <sup>m</sup> Ca		
						x, y	P	V	x, y	P	V
NGC6981	Glob. cl.	6	3 × 3	9	20 <sup>h</sup> 51 <sup>m</sup> -12° 45'	707,282	126	124	705,286	30	24
NGC7009	Plan. neb.	7	5 × 5	25	21:01.5 -11:34	578,306	186	167	563,300	89	330
NGC7065	2 SB gals.	11	4 × 4	16	21:24 -07:15	246,268	104	101	230,261	17	3
PKS2128	QSO	10	2 × 2	4	21:29 -12:20	324,520	184	178	309,515	27	26
PKS2135	QSO	10	2 × 2	4	21:35 -14:46	321,653	153	151	308,657	25	22
PKS2143	QSO	10	2 × 2	4	21:43.6 -15:42	257,748	114	111	251,748	22	20
PKS2144	QSO	10	2 × 2	4	21:44 -17:54	306,850	94	93	300,843	30	25
PKS2146	QSO	10	2 × 2	4	21:47 -13:18	160,671	97	96	144,662	47	32
PKS2044	QSO	10	2 × 2	4	20:44.5 -16:50	878,433	108	105	867,424	21	19

Table 12 — Expected Far-UV Objects in Cetus,

 $02^h 44^m - 14^{\circ} 30'$   
 $\pm 41^m \pm 10^{\circ}$ 

Object	Type	Ref.	Size, $\Delta x, \Delta y$	No. of Pixels	R.A. (1950) Dec.	Frame A59, 3 <sup>m</sup> Li			Frame A63, 10 <sup>m</sup> Ca		
						x, y	P	V	x, y	P	V
NGC 908	Sc gal.	11	4 × 4	16	02 <sup>h</sup> 21 <sup>m</sup> -20° 56'	248,841	76	74	191,787	18	17
IZw7	Com. gal.	12	2 × 2	4	02:35 -09:38	789,631	74	75	730,575	16	16
NGC1022	Spec. gal.	11	2 × 2	4	02:36 -06:53	923,610	82	78	862,553	15	15
NGC1035	SB gal.	11	2 × 2	4	02:37 -08:20	851,603	70	73	788,543	20	17
PKS0237	QSO	10	2 × 2	4	02:37.9 -23:22	124,650	64	64	63,596	15	16
NGC1052	E3 gal.	11	2 × 2	4	02:39 -08:42	832,579	77	75	771,519	16	16
NGC1052 gp	6 gals.	11	25	4	02:40 -08	865,565	76	73	805,507	15	15
PKS0240	QSO	10	2 × 2	4	02:40.7 -06:04	960,551	78	76	903,491	17	16
Cetus 1 gp	12 gals.	11	600	4	02:41 -06	964,547	74	78	905,489	16	16
NGC1084	Sc gal.	11	2 × 2	4	02:44 -07:47	872,515	74	73	811,456	17	16
IZw8	Com. gal.	12	2 × 2	4	02:46 -09:08	806,494	78	76	745,435	18	16
NGC1140	Irr. gal.	11	2 × 2	4	02:52 -10:14	746,424	77	74	687,370	15	15
NGC1172	E1 gal.	11	2 × 2	4	02:59 -15:02	510,367	80	78	452,316	22	16
NGC1199	E3 gal.	11	2 × 2	4	03:01 -15:48	472,351	77	75	414,300	15	15
NGC1209	E6 gal.	11	2 × 2	4	03:04 -15:48	469,312	78	75	411,263	17	16
Eridanus gp	19 gals.	11	750	4	03:11 -21	213,260	70	72	152,202	17	17
NGC1297	E2 gal.	11	2 × 2	4	03:17 -19:16	291,180	69	69	232,121	15	16
NGC1309	Sc gal.	11	2 × 2	4	03:20 -15:35	466,117	72	70	409,62	20	17

Table 13a — Expected Far-UV Objects in Grus,

$23^h 34^m - 42^h 30'$   
 $\pm 53^m \pm 10^\circ$

Object	Type	Ref.	Size, $\Delta x, \Delta y$	No. of Pixels	R.A. (1950) Dec.	Frame A68, 1 <sup>m</sup> Li			Frame A69, 3 <sup>m</sup> Li			Frame A73, 10 <sup>m</sup> Ca		
						x, y	P	B <sub>G</sub>	x, y	P	B <sub>G</sub>	x, y	P	B <sub>G</sub>
NGC7410	SBO gal.	11	3 × 3	9	22 <sup>h</sup> 52 <sup>m</sup> -39°54'	218,786	53	51	9 212,784	112	107	35	191,787	18 17
IC5267	SO gal.	11	3 × 3	9	22:54 -43:43	178,596	53	50	16 176,599	105	105	0	153,601	21 18 11
NGC7421	SBa gal.	11	2 × 2	4	22:54 -37:37	265,884	54	53	7 262,888	116	113	11	239,888	17 18 0
NGC7424	Sc gal.	11	6 × 6	36	22:55 -41:20	225,707	54	51	22 219,709	112	109	43	194,711	22 17 57
NGC462	Sbc gal.	11	3 × 3	9	23:00 -41:06	274,704	58	56	10 269,704	121	118	19	245,704	19 18 6
NGC7496	SBa gal.	11	3 × 3	9	23:07 -43:42	287,555	57	55	11 286,560	122	120	5	263,564	19 16 21
Grus gp	20 gals.	11	250		23:08 -43	307,587	57	56	— 305,589	121	117	—	282,590	16 16 —
NGC7496A	Sbc gal.	11	2 × 2	4	23:10 -43:03	322,579	58	57	4 320,581	123	122	4	297,582	17 16 5
NGC7552	SBa gal.	11	3 × 3	9	23:14 -42:53	359,574	60	57	24 355,573	129	124	21	333,574	18 16 8
NGC7590	Sb gal.	11	2 × 2	4	23:16 -42:31	380,581	57	57	0 377,581	122	125	0	356,582	15 16 0
NGC7582	SBa gal.	11	3 × 3	9	23:16 -42:37	378,577	59	57	6 376,577	126	125	8	354,578	17 16 4
PKS2326	QSO	10	2 × 2	4	23:26.6 -47:47	364,312	55	53	8 363,310	114	112	6	337,310	18 16 4
PKS2329	QSO	10	2 × 2	4	23:29.3 -38:28	566,708	61	59	6 566,710	133	128	7	544,707	19 17 7
IC5332	Sc gal.	11	5 × 4*	16	23:32 -36:22	630,788	60	55	33 627,795	125	119	68	603,794	24 17 74
NGC7744	SO gal.	11	2 × 2	4	23:42 -43:12	573,444	54	52	4 571,444	114	113	9	548,447	17 16 4
NGC7764	Irr. gal.	11	2 × 2	4	23:48 -41:01	669,510	55	54	5 667,510	122	120	11	644,514	20 18 9
QSO2350	QSO	10	2 × 2	4	23:50.1 -33:53	849,818	52	51	2 842,819	111	109	5	822,821	19 18 4
PKS2352	QSO	10	2 × 2	4	23:52.9 -45:30	603,294	58	55	7 602,303	118	116	5	578,303	17 16 4
QSO2355	QSO	10	2 × 2	4	23:55.1 -36:25	834,681	54	52	5 830,683	114	112	6	806,680	19 18 2
QSO2357	QSO	10	2 × 2	4	23:57.1 -34:52	886,737	54	52	7 881,744	112	109	9	861,739	17 16 4
QSO0000	QSO	10	2 × 2	4	00:00.5 -39:49	794,503	55	54	1 792,508	117	115	5	767,510	19 18 1
QSO0002	QSO	10	2 × 2	4	00:02.3 -42:13	752,394	54	52	6 750,393	116	114	7	727,392	18 17 3
QSO0007	QSO	10	2 × 2	4	00:07.7 -35:21	—	—	—	—	—	—	—	942,665	19 18 4
NGC 55	Sc gal.	11	19 × 15*	156	00:13.5 -39:30	903,458	54	49	212 904,458	112	106	870	879,463	36 17 1050

\*Irregular area on the mosaic.

Table 13b — Expected Far-UV Objects in Grus,

$$23^h 54^m - 40^\circ 30'$$

$$\pm 53^m \pm 10^\circ$$

Object	Type	Ref.	Size, $\Delta x, \Delta y$	No. of Pixels	R.A. (1950) Dec.	Frame A88, I <sup>m</sup> Li			Frame A94, 30 <sup>m</sup> Ca		
						x, y	P	B <sub>G</sub>	x, y	P	B <sub>G</sub>
NGC7496	SBa gal.	11	3 × 3	9	23 <sup>h</sup> 07 <sup>m</sup> - -43°42'	78,531	49	46	60,524	24	22
Grus gp	20 gals.	11	250		23:08	97,565	46	53	79,556	21	23
NGC7496A	SBc gal.	11	2 × 2	4	23:10	112,555	49	47	96,549	22	21
NGC7552	SBa gal.	11	3 × 3	9	23:14	155,552	52	48	132,543	33	22
NGC7590	Sb gal.	11	2 × 2	4	23:16	176,566	49	48	158,557	25	23
NGC7582	SBa gal.	11	3 × 3	9	23:16	174,561	50	48	156,552	21	21
PKS2326	QSO	10	2 × 2	4	23:26.6	177,285	50	49	159,276	26	24
QSO		10	2 × 2	4	23:29.3	359,709	57	56	342,703	31	30
IC5332	Sc gal.	11	11 × 4*	38	23:32	420,793	55	53	400,786	30	25
NGC7744	SO gal.	11	2 × 2	4	23:42	377,445	57	56	362,440	24	22
ASE2346	X-ray	8	3 × 3	9	23:46	626,934	52	49	606,931	26	24
NGC7764	Irr. gal.	11	2 × 2	4	23:48	471,515	57	55	453,512	24	21
QSO2350	QSO	10	2 × 2	4	23:50.1	630,825	53	52	607,824	27	26
PKS2352	QSO	10	2 × 2	4	23:52.9	421,303	56	54	402,290	26	24
NGC7793	Sd gal.	11	7 × 7	49	23:55	695,846	52	50	676,845	46	30 <sup>?</sup>
QSO2355	QSO	10	2 × 2	4	23:55.1	620,687	57	55	606,681	25	23
QSO2357	QSO	10	2 × 2	4	23:57.1	668,746	57	54	655,745	25	24
QSO0000	QSO	10	2 × 2	4	00:00.5	592,514	56	53	581,507	22	19
QSO0002	QSO	10	2 × 2	4	00:02.3	562,404	57	55	543,398	20	19
QSO0007	QSO	10	2 × 2	4	00:07.7	-	-	-	735,670	25	24
NGC 55	Sc gal.	11	21 × 16*	247	00:13	-	-	-	684,465	63	22
NGC 134	Sb gal.	11	6 × 6	36	00:27	-	-	-	954,659	24	22
NGC 134 gp	8 gals.	11	300	-	00:28	-	-	-	962,654	22	22

\*Irregular area on the mosaic



Table 14 — Expected Far-UV Objects in Pavo,

 $21^h:14^m:52^s.12'$   
 $\pm 65^m \pm 10^\circ$ 

Object	Type	Ref.	Size, $\Delta x, \Delta y$	No. of Pixels	R.A. (1950) Dec.	Frame A118, 1 <sup>m</sup> Li			Frame A121, 30 <sup>m</sup> Ca		
						$x, y$	$P$	$BG$	$x, y$	$P$	$BG$
NGC6893	S0 gal.	11	2 x 2	4	20 <sup>h</sup> :17 <sup>m</sup> -48°:25'	144,205	115	114	136,198	16	15
NGC6970	SB0 gal.	11	2 x 2	4	20:49 -48:59	279,433	128	127	274,427	20	18
NGC7029	E6 gal.	11	2 x 2	4	21:08 -49:30	384,550	141	140	370,543	18	17
NGC7041	S0 gal.	11	2 x 2	4	21:13 -48:35	364,609	148	145	357,604	20	18
Pavo gp	30 gals.	11	650		21:26 -53	594,556	135	125	584,551	17	17
NGC7049	S0 gal.	11	2 x 2	4	21:16 -48:47	388,623	147	143	378,618	19	17
NGC7079	S0 gal.	11	2 x 2	4	21:29 -44:18	270,845	127	124	257,841	18	18
NGC7090	SBc gal.	11	6 x 6	36	21:33 -54:47	691,536	139	135	682,536	18	17
NGC7144	E0 gal.	11	2 x 2	4	21:50 -48:29	535,849	133	130	526,845	22	19
IC5152	Irr. gal.	11	4 x 4	16	22:00 -51:32	696,800	134	130	689,795	24	18
NGC7205	Sb gal.	11	3 x 3	9	22:05 -57:40	939,610	117	114	929,607	18	16
PKS2204	QSO	10	2 x 2	4	22:04.4 -54:01	809,734	124	121	802,730	19	17

Table 15 — Expected Far-UV Objects in Mensa,

 $05^h:50^m:74^s.00'$   
 $\pm 2:25 \pm 10^\circ$ 

Object	Type	Ref.	Size, $\Delta x, \Delta y$	No. of Pixels	R.A. (1950) Dec.	Frame A124, 1 <sup>m</sup> Li			Frame A125, 3 <sup>m</sup> Li			Frame A129, 10 <sup>m</sup> Ca			Frame A130, 30 <sup>m</sup> Ca		
						$\Delta x, \Delta y$	$P$	$BG$	$\Delta x, \Delta y$	$P$	$BG$	$\Delta x, \Delta y$	$P$	$BG$	$\Delta x, \Delta y$	$P$	$BG$
NGC2397A	Sc gal.	11	2 x 2	4	07 <sup>h</sup> :21 <sup>m</sup> -68°:45'	675.88	155	153	7	679.94	482	473	27	678.88	61	59	7
NGC2397	SBa gal.	11	2 x 2	4	07:22 -68:54	666.92	151	148	12	670.92	505	481	59	669.93	61	61	3
NGC2434	E0 gal.	11	2 x 2	4	07:35 -69:10	635.45	183	176	15	633.43	648	596	158	636.48	70	69	6
NGC2442	SBa gal.	11	5 x 5	25	07:37 -69:25	618.43	187	180	78	620.44	634	620	171	621.43	67	69	15
NGC2466	Sc gal.	11	2 x 2	4	07:46 -71:17	518.62	147	148	0	520.63	545	525	57	522.59	60	59	5

Table 16 — Expected Far-UV Objects in Norma.

$17^h.24^m-59^{\circ}.04'$   
 $\pm 80'' \pm 10^{\circ}$

Object	Type	Ref.	Size, $\Delta x, \Delta y$	No. of Pixels	R.A. (1950) Dec.	Frame A144, 1 <sup>m</sup> Li			Frame A145, 3 <sup>m</sup> Li			Frame A149, 4 <sup>m</sup> Ca		
						x, y	P	BG	x, y	P	BG	x, y	P	BG
NGC6087	Glob. cl.	6	3 × 3	9	16 <sup>h</sup> .14 <sup>m</sup> -57° 50'	673.77	174	171	675.75	630	609	678.74	73	71
ASE1637	X-ray	8	2 × 2	4	16:37 -53:41	419.109	119	116	418.106	448	446	422.104	40	37
ASE1639	X-ray	8	2 × 2	4	16:39 -62:43	781.336	100	96	779.337	277	268	777.334	27	25
NGC6208	Glob. cl.	6	3 × 3	9	16:45 -53:46	393.166	104	104	391.164	346	342	397.164	31	28
NGC6215	Sc gal.	11	2 × 2	4	16:47 -58:55	598.298	101	101	596.293	298	292	599.290	29	26
NGC6221	SBC gal.	11	3 × 3	9	16:49 -59:08	602.312	102	98	602.309	286	285	600.307	34	27
NGC6253	Glob. cl.	6	2 × 2	4	16:55 -52:39	307.208	95	93	308.207	284	278	311.205	26	25
NGC6300 gp	10 gals.	11	500	9	17:07 -63	720.486	86	81	720.484	230	253	721.483	30	26
NGC6300	SBB gal.	11	3 × 3	9	17:12 -62:46	702.509	86	84	698.508	231	225	701.504	31	29
NGC6326	Plan. neb.	7	2 × 2	4	17:16.8 -51:42	203.338	82	81	198.336	218	213	200.335	28	25
NGC6362	Glob. cl.	6	3 × 3	9	17:26 -67:01	860.649	152	75	858.649	490	193	859.647	296	49?
IC4662	Irr. gal.	11	2 × 2	4	17:42 -64:39	732.696	79	77	729.695	205	197	730.694	27	25
NGC6630	Neb.	6	2 × 2	4	18:28 -63:17	614.933	78	72	610.936	195	188	612.931	36	29
IC4723	Neb.	6	2 × 2	4	18:30 -64	645.944	76	71	638.949	202	195	641.945	30	27

Table 17a — Expected Far-UV Objects in Aquarius.

$$22^h 56^m - 04^s 36'$$

$$\pm 40'' \pm 10'$$

Object	Type	Ref.	Size, $\Delta x, \Delta y$	No. of Pixels	R.A. (1950) Dec.	Frame A151, 1 <sup>m</sup> Li				Frame A152, 3 <sup>m</sup> Li				Frame A157, 30 <sup>m</sup> Ca			
						x, y	P	BG	V	x, y	P	BG	V	x, y	P	BG	V
PKS2223	QSO	10	2 x 2	4	22 <sup>h</sup> 23.2	926,499	133	129	6	926,494	438	432	28	946,497	27	26	4
QSO225	QSO	10	2 x 2	4	22:25.9	896,511	128	123	12	899,510	375	370	61	916,512	28	26	5
NGC7309	Sb gal.	11	2 x 2	4	22:32	819,769	106	104	8	820,770	312	307	20	838,772	24	24	5
II Zw 183	Com. gal.	6	2 x 2	4	22:38	733,377	80	78	5	737,380	204	201	11	754,376	24	22	6
NGC7371	Sa gal.	11	2 x 2	4	22:43	685,808	84	83	3	689,807	229	226	14	703,813	25	24	7
PKS2243	QSO	10	2 x 2	4	22:43.7	683,869	83	80	9	680,863	210	206	9	698,869	24	23	4
NGC7393	SBb gal.	11	2 x 2	4	22:49	609,539	76	74	8	610,541	193	190	15	624,543	28	22	14
PKS2254	QSO	10	2 x 2	4	22:54.7	530,133	61	59	5	533,132	236	176	192	549,137	20	19	4
PKS2256	QSO	10	2 x 2	4	22:56.4	506,171	61	59	7	508,172	136	130	15	526,169	21	20	3
NGC7443-4	SO gal.	11	2 x 2	4	22:57	521,910	68	65	9	524,915	171	168	5	543,911	24	23	4
II Zw 92	Com. gal.	6	2 x 2	4	23:02	447,352	68	67	2	448,355	160	158	7	465,354	20	19	3
II Zw 97	Com. gal.	6	2 x 2	4	23:13	316,352	57	56	4	318,353	130	130	6	330,352	21	20	4
NGC7576	SO gal.	11	2 x 2	4	23:15	298,524	62	60	6	301,328	140	138	10	319,528	22	22	4
NGC7585	S gal.	11	2 x 2	4	23:15	299,519	62	60	6	300,522	140	138	9	319,524	20	20	0
NGC7592	SO gal.	11	2 x 2	4	23:16	286,514	62	60	6	289,514	139	138	7	305,510	22	20	5
NGC7600	E6 gal.	11	2 x 2	4	23:16	293,669	61	60	3	296,669	145	143	7	313,671	22	21	4
NGC7606	Sa gal.	11	5 x 5	25	23:16	292,713	61	59	6	296,713	143	142	48	314,715	26	25	12
PKS2320	QSO	10	2 x 2	4	23:20.9	224,454	54	53	4	221,454	125	123	4	242,462	21	20	3

Table 17b — Expected Far-UV Objects in Aquarius,

$$23^h:16^m-03^s:18'$$

$$\pm 40^m \pm 10^s$$

Object	Type	Ref.	Size, $\Delta x, \Delta y$	No. of Pixels	R.A. (1950) Dec.	Frame A171, 1 <sup>m</sup> Li			Frame A172, 3 <sup>m</sup> Li			Frame A177, 30 <sup>m</sup> Ca		
						$x, y$	$P$	$V$	$x, y$	$P$	$V$	$x, y$	$P$	$V$
II Zw 183	Com. gal.	6	2 × 2	4	22 <sup>h</sup> :38 <sup>m</sup> -02°:41'	970,448	116	116	977,457	390	382	983,449	24	23
NGC7393	SBb gal.	11	2 × 2	4	22:49 -05:49	841,607	124	119	841,613	335	331	851,619	22	21
PKS2254	QSO	10	2 × 2	4	22:54.7 02:27	754,201	72	69	757,211	159	156	768,205	20	19
PKS2256	QSO	10	2 × 2	4	22:56.4 01:48	734,239	73	72	735,242	163	160	746,243	21	19
III Zw 92	Com. gal.	6	2 × 2	4	23:02 -01:45	676,418	80	80	673,417	195	193	685,421	16	17
III Zw 97	Com. gal.	6	2 × 2	4	23:13 -01:31	541,422	67	65	543,422	164	159	553,420	18	17
NGC7576	SO gal.	11	2 × 2	4	23:15 -05:01	525,595	73	71	527,598	173	170	536,598	19	19
NGC7585	S gal.	11	2 × 2	4	23:15 -04:56	525,591	71	70	526,590	174	172	536,594	17	17
NGC7592	SO gal.	11	2 × 2	4	23:16 -04:42	514,578	73	72	513,585	170	166	525,582	29	24
NGC7600	E6 gal.	11	2 × 2	4	-07:52	522,738	74	72	522,740	177	175	533,741	21	21
NGC7606	Sa gal.	11	5 × 5	25	-08:46	521,781	70	69	523,787	176	171	535,790	26	26
PKS2318	QSO	10	2 × 2	4	23:18.2 04:57	470,797	61	60	472,108	124	122	482,106	20	18
PKS2320	QSO	10	2 × 2	4	23:20.9 -03:34	455,532	74	68	453,534	157	156	468,526	18	17
NGC7731	SBO gal.	11	2 × 2	4	23:39 03:28	219,194	49	49	219,199	113	112	233,199	20	20
NGC7732	Sc gal.	11	2 × 2	4	23:39 03:27	219,194	49	49	219,199	113	112	233,199	20	20
II Zw 116	Com. gal.	6	2 × 2	4	-01:36	230,449	53	52	232,451	121	120	243,449	19	18
PKS2340	QSO	10	2 × 2	4	-03:40	219,553	57	55	218,557	128	126	232,555	19	18
PKS2351	QSO	10	2 × 2	4	23:51.6 -00:36	71,406	46	45	75,408	108	106	85,410	20	19

Table 18 — Expected Far-UV Objects in Fornax,

03<sup>h</sup>.42<sup>m</sup>–27°20'±45<sup>m</sup>±10°

Object	Type	Ref.	Size, Δx, Δy	No. of Pixels	R.A. (1950) Dec.	Frame A191, 1 <sup>m</sup> Li			Frame A192, 3 <sup>m</sup> Ca			Frame A195, 3 <sup>m</sup> Ca		
						x,y	P	BG	x,y	P	BG	x,y	P	BG
NGC1255	Sc gal.	11	3 × 3	9	03 <sup>h</sup> .11 <sup>m</sup> -25°58'	456,856	40	38	8	451,854	100	95	23	414,861
Eridanus gp	19 gals.	11	750		03:11 -21	672,939	39	37	—	672,939	91	85	—	634,944
NGC1300	SBb gal.	11	5 × 5	25	03:18 -19:35	769,887	38	36	1	770,886	84	79	40	727,884
QSO0321	QSO	10	2 × 2	4	03:21.7 -33:45	145,611	38	36	4	143,607	74	72	5	102,614
NGC1332-1	S0-E2 gals.	11	3 × 3	9	03:24 -21:31	701,765	47	38	43	705,784	84	82	10	666,788
NGC1350	SBc gal.	11	3 × 3	9	03:29 -33:47	166,535	36	34	8	169,533	76	74	9	131,541
For C1	30 gals.	9	150		03:30 -36:06	64,489	31	33	—	64,489	68	72	—	24,494
NGC1360	Plan. neb.	7	7 × 7	37	03:31.2 -26:01	529,637	115	39	792	530,637	376	88	2840	491,642
NGC1365	SBb gal.	11	8 × 8	64	03:32 -36:18	63,464	33	31	36	66,460	71	69	55	21,473
IZw13	Com. gal.	12	2 × 2	4	03:33 -35:20	112,474	35	34	2	114,473	76	74	6	71,470
QSO0334	QSO	10	2 × 2	4	03:34.0 -35:59	83,453	34	33	3	84,453	75	73	5	44,455
NGC1379	E0 gal.	11	2 × 2	4	03:34 -35:37	101,460	34	33	3	100,462	74	73	3	60,460
NGC1380	S0 gal.	11	3 × 3	9	03:35 -35:09	129,465	36	35	2	131,458	77	75	4	92,462
NGC1400	E1 gal.	11	2 × 2	4	03:37 -18:46	881,684	34	33	3	882,683	73	73	3	842,688
NGC1398	SBb gal.	11	5 × 5	25	03:37 -26:30	524,570	41	39	15	523,566	86	83	30	492,570
NGC1399	E0 gal.	11	2 × 2	4	03:37 -35:37	111,429	34	33	2	110,433	74	74	2	69,431
NGC1404	E1 gal.	11	2 × 2	4	03:37 -35:45	102,429	35	34	4	106,431	74	73	4	61,431
NGC1407	E0 gal.	11	2 × 2	4	03:38 -18:44	888,673	34	33	6	888,672	75	73	6	850,677
PKS0402	QSO	10	2 × 2	4	04:02.0 -36:13	158,176	33	32	7	157,176	67	68	-1	120,181
NGC1518	Sc gal.	11	3 × 3	9	04:05 -21:18	866,338	44	39	17	861,334	80	78	13	820,345
NGC1521	E3 gal.	11	2 × 2	4	04:06 -21:11	871,323	36	34	6	868,324	79	77	5	831,328
NGC1531-2	?SBa gals.	11	5 × 5	25	04:10 -33:00	330,139	37	34	18	331,135	81	78	19	296,142

Table 19 — Expected Far-UV Objects in Sagittarius.

 $18^h.34^m-30^s.24'$   
 $\pm 46'' \pm 10''$ 

Object	Type	Ref.	Size, $\Delta x, \Delta y$	No. of Pixels	R.A. (1950) Dec.	Frame A198, 1"mLi			Overexposed Frame A199, 3"mLi			Frame A203, 10"mCa			Frame A202, 3"mCa			Frame A204, 30"mCa		
						x, y	P	B/G	x, y	P	B/G	x, y	P	B/G	x, y	P	B/G	x, y	P	B/G
B13-14	Plan. neb.	7	3 × 3	9	17 <sup>h</sup> .49.2 <sup>m</sup> -29° 45'	666.55	122	119	17	1222	1190	27	off	668.37	662.44	32	30	675.31	—	off
B13-6	Plan. neb.	7	3 × 3	9	17.49.7	731.88	116	114	9	—	—	—	—	734.76	728.78	30	27	740.69	—	off
M2-20	Plan. neb.	7	3 × 3	9	17.51.2	650.63	119	116	16	651.67	1209	395	14	654.55	644.58	30	27	657.52	126	122
B13-10	Plan. neb.	7	3 × 3	9	17.52.1	660.81	115	112	15	657.79	1086	290	12	604.71	654.79	34	31	666.68	141	136
H1-42	Plan. neb.	7	3 × 3	9	17.54.1	811.175	105	103	11	810.174	812	774	14	804.73	804.73	25	23	820.161	103	100
ASE1757	X-ray	8	5 × 5	25	17.57	811.213	98	97	1	813.206	760	709	21	817.195	806.205	23	22	820.195	(SAO209568)	14
ASE1757	X-ray	8	5 × 4	20	17.57	425.34	109	106	20	426.34	996	931	337	428.26	421.27	40	35	432.15	—	off
NGC6520	Neb. + cl.	6	6 × 8*	40	18.00	531.126	112	106	61	528.129	974	746	1590	533.116	526.120	39	26	58.111	202	133
NGC6522	Glob. cl.	6	3 × 3	9	18.00.5	620.170	107	105	8	621.165	835	796	206	624.158	614.166	27	24	632.146	139	126
NGC6544	Glob. cl.	6	3 × 3	9	18.04.3	391.118	99	98	9	386.118	786	744	22	382.106	380.109	27	25	394.95	119	115
NGC6553	Glob. cl.	6	4 × 4	16	18.06.4	415.155	95	93	17	417.160	694	623	525	415.151	411.151	25	22	421.139	97	94
He2-354	Plan. neb.	7	3 × 3	9	18.06.6	741.292	96	95	5	741.290	619	570	300	747.279	737.289	25	22	750.276	91	90
NGC6559	Neb.	6	8 × 8	64	18.07.0	343.108	94	92	66	—	—	—	—	339.116	331.119	58	38	343.129	141	132
Apl-10	Plan. neb.	7	3 × 3	9	18.07.6	499.206	97	94	15	501.209	690	616	398	504.197	496.199	26	23	507.192	95	91
Apl-12	Plan. neb.	7	3 × 3	9	18.08.4	515.223	97	95	12	517.226	710	655	135	519.206	506.214	25	23	521.204	99	92
NGC6563	Plan. neb.	7	3 × 3	9	18.08.7	756.321	(SAO209817)	503.223	682	608	441	509.213	42	40	500.213	24	23	512.205	(SAO186471)	25
NGC6565	Plan. neb.	7	3 × 3	9	18.08.7	507.225	97	94	14	503.223	682	608	441	509.213	500.213	24	23	512.205	(SAO186471)	25
Apl-11	Plan. neb.	7	3 × 3	9	18.07.9	526.220	93	91	13	524.220	671	628	252	529.215	518.215	24	22	534.204	93	89
NGC6569	Glob. cl.	6	3 × 3	9	18.10.5	657.304	92	91	7	655.301	619	571	237	659.294	655.293	26	24	665.285	(SAO209873)	10
He2-370	Plan. neb.	7	3 × 3	9	18.11.4	563.278	96	93	11	565.278	630	560	414	565.261	562.275	22	21	573.262	80	79
CnMyl17	Plan. neb.	7	3 × 3	9	18.12.2	595.294	95	91	20	595.298	585	550	105	597.288	589.293	24	22	600.281	86	81
He2-376	Plan. neb.	7	3 × 3	9	18.12.8	477.262	96	93	12	477.258	660	612	248	476.246	470.257	23	22	480.242	90	87
SwS11	Plan. neb.	7	3 × 3	9	18.13.0	607.309	92	90	11	606.309	609	555	285	609.302	601.304	24	21	613.294	88	85
M2-36	Plan. neb.	7	3 × 3	9	18.14.5	522.297	97	91	28	521.298	652	570	453	524.288	516.291	45	31	529.278	139	114
NGC6620	Plan. neb.	7	3 × 3	9	18.19.8	427.314	92	88	25	402.313	508	473	205	410.304	393.312	25	22	406.312	89	83
ASE1820	X-ray	8	3 × 3	9	18.20	558.379	87	85	10	555.376	508	464	192	553.372	550.367	20	20	566.354	73	70
NGC6624	Glob. x-ray	6	3 × 3	9	18.20.6	558.379	87	85	10	555.376	508	464	192	553.372	548.374	21	21	558.360	90	82
NGC6626	Glob. cl.	6	4 × 4	16	18.21.5	308.302	83	81	17	305.301	422	392	105	314.298	307.297	39	27	312.281	79	72
ASE1822	X-ray	8	3 × 3	9	18.22	857.506	86	83	14	856.506	404	357	206	858.494	852.500	41	30	864.488	(SAO210122)	58
NGC6629	Plan. neb.	7	3 × 3	9	18.22.7	231.283	79	75	18	228.283	402	368	202	233.276	222.277	20	20	234.271	71	70
Vy2-1	Plan. neb.	7	3 × 3	9	18.24.9	354.362	90	85	26	349.357	430	409	79	353.350	348.356	35	26	357.339	157	93
Cn1-5	Plan. neb.	7	3 × 3	9	18.26.0	585.453	86	80	28	586.543	438	404	125	588.444	580.447	28	22	593.433	81	70
NGC6637	Glob. cl.	6	4 × 4	16	18.28.2	617.488	80	78	18	616.482	387	360	87	620.482	612.478	21	19	621.470	62	54
NGC6642	Glob. cl.	6	3 × 3	9	18.28.4	307.381	85	79	28	307.380	378	358	80	313.367	307.376	20	18	316.364	77	73
NGC6644	Plan. neb.	7	3 × 3	9	18.28.5	215.345	77	74	17	215.351	344	318	133	220.341	208.342	20	18	221.332	66	64
IC4732	Plan. neb.	7	3 × 3	9	18.29.5	292.394	79	77	10	293.393	397	355	210	292.383	282.389	29	23	295.376	88	81
NGC6652	Glob. cl.	6	3 × 3	9	18.31.0	172.362	75	73	9	172.364	355	317	146	175.353	167.356	24	22	179.347	87	82
NGC6656	Glob. cl.	6	3 × 3	9	18.32.6	630.538	88	85	13	628.538	448	399	263	633.524	625.527	25	22	639.522	(SAO210312)	216
Jupiter	Planet	7	3 × 3	49	18.33.3	220.411	71	69	11	159.422	308	290	94	159.412	151.410	21	19	163.404	(SAO187112)	7
M3-29	Plan. neb.	7	3 × 3	9	18.36.2	516.546	78	77	7	519.546	371	359	22	521.539	511.538	20	19	524.530	54	51
IC4776	Plan. neb.	7	3 × 3	9	18.42.6	616.644	83	80	16	618.644	435	415	88	620.634	613.637	21	20	625.626	63	61
Hb 7	Plan. neb.	7	3 × 3	9	18.52.0	541.723	79	77	9	538.727	493	457	196	543.720	534.722	23	21	547.713	77	74
NGC6715	Glob. cl.	6	4 × 4	16	18.52.1	457.699	82	79	23	455.709	454	406	373	463.694	451.695	22	20	466.688	76	70
NGC6723	Glob. cl.	6	7 × 7	49	18.56.4	727.825	75	73	44	725.841	419	373	462	730.819	723.819	26	24	735.810	82	78
Hb 8	Plan. neb.	7	3 × 3	9	19.02.0	554.841	76	73	19	555.841	462	438	122	551.832	544.833	23	22	560.820	80	78

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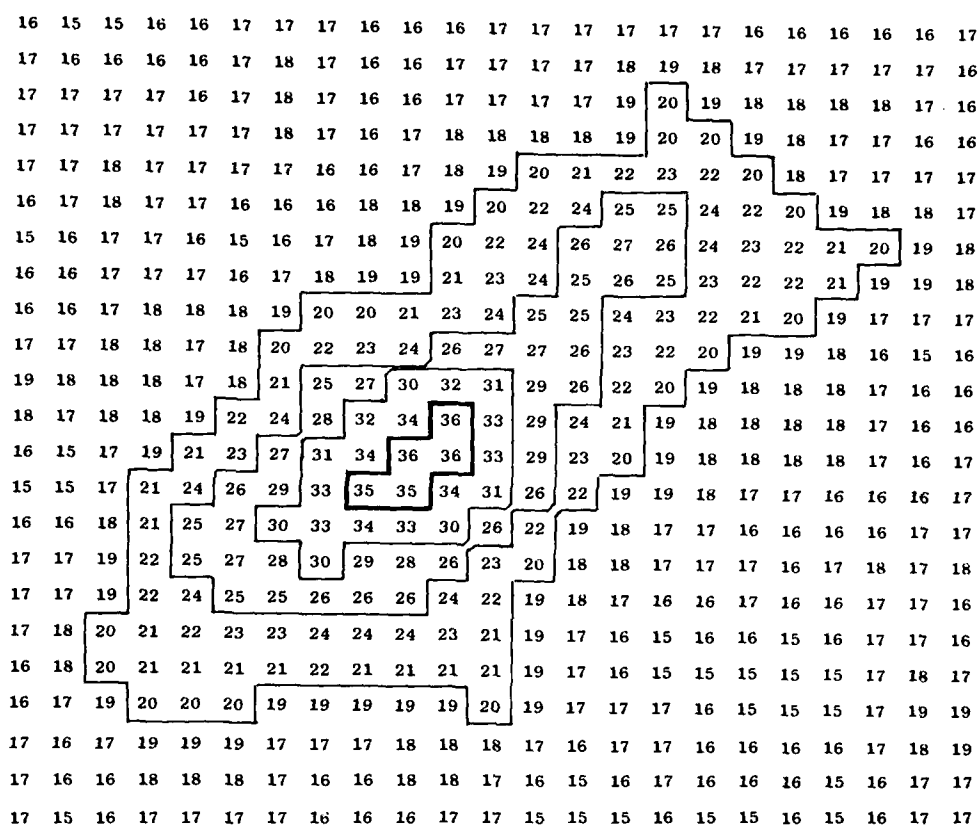


Fig. 44 — Sample density-number mosaic printout, a portion of S201 frame A73 (ICa, 10-min exposure) including the galaxy NGC 55. Isodensity contour lines have been drawn in.

Table 20 — Expected Objects Detected by Far-UV Flux

Type of Objects Expected		Definitely Detected			Possibly Detected		
Number	Mag. Range*	No.	Percent	Mag. Range*	No.	Percent	Mag. Range*
8 nebulae HII	—	7	87	—	1	12	—
36 plan. nebulae	7.5 to 15.0v	11	31	7.5 to 15.0v	0	—	—
10 x-ray sources	9 to 1000/s	6	60	9 to 1000/s	0	—	—
20 glob. clusters	6.5 to 10.5p	11	55	6.5 to 10.0p	1	5	9.3p
25 compact E-galaxies	11.3 to 15.9p	2	8	12.7 to 13.0p	1	4	13.8p
57 irregular S-galaxies	10.2 to 14.5p	16	28	10.2 to 13.1p	3	5	11.1p
8 groups of galaxies	6 to 30 galaxies	1	12	30 galaxies	2	25	19 to 20 galaxies
30 QSOs	15.5 to 20.6v	0	—	—	0	—	—

\*v = visual and p = photographic; magnitudes of x-ray sources are in counts/s.

Table 21 — Measurements of Groups of Galaxies

Group	No. of Galaxies	Diameter*	Redshift $10^3 z$	Center Coordinates R.A. (1950) Dec.		x,y	Table	Exp. and Frame	Filter	P	BG
NGC 134	8	6° = 300 r	0.0055	00 <sup>h</sup> :28 <sup>m</sup>	-33°:30'	962,654	13	A94	30 <sup>m</sup> ICa	22	22
NGC1052	6	0.5° = 25 r	0.0048	02:40	-08	865,565	12	A59	3 <sup>m</sup> ILi	76	73
						805,507	12	A63	10 <sup>m</sup> ICa	15	15
Cetus I	12	12° = 600 r	0.0044	02:41	-06	964,547	12	A59	3 <sup>m</sup> ILi	74	78
						905,489	12	A63	10 <sup>m</sup> ICa	16	16
Eridanus	19	15° = 750 r	0.005	03:11	-21	213,260	12	A59	3 <sup>m</sup> ILi	70	72
						152,202	12	A63	10 <sup>m</sup> ICa	17	17
						672,939	18	A191	1 <sup>m</sup> ILi	39	37
						672,939	18	A192	3 <sup>m</sup> ILi	91	85
						634,944	18	A195	3 <sup>m</sup> ICa	20	15
Fornax	30	3° = 150 r	0.0054	03:30	-36	64,489	18	A191	1 <sup>m</sup> ILi	31	33
						64,489	18	A192	3 <sup>m</sup> ILi	68	72
						24,494	18	A195	3 <sup>m</sup> ICa	15	15
NGC6300	10	10° = 500 r	0.0047	17:07	-63	720,486	16	A144	1 <sup>m</sup> ILi	86	81
						720,484	16	A145	3 <sup>m</sup> ILi	230	253
						721,483	16	A149	4 <sup>m</sup> ICa	30	26
Pavo	30	13° = 650 r	0.0076	21:26	-53	594,556	14	A118	3 <sup>m</sup> ILi	135	125
						594,551	14	A121	3 <sup>m</sup> ICa	17	17
Grus	20	5° = 250 r	0.0053	23:08	-43	307,587	13	A68	1 <sup>m</sup> ILi	57	56
						305,589	13	A69	3 <sup>m</sup> ILi	121	117
						282,590	13	A73	10 <sup>m</sup> ICa	16	16
						97,565	13	A88	1 <sup>m</sup> ILi	46	53
						79,556	13	A94	30 <sup>m</sup> ICa	21	23

\*r = rasters.

## CONCLUDING REMARKS

The objective of this Catalog has been, primarily, to present a listing of the UV brightnesses of stars and starlike objects observed by the S201 experiment. Data are presented for ten fields of view covering more than 3100 square degrees on the sky and for more than 1900 separate objects (exclusive of the Large Magellanic Cloud, which is discussed in a separate report [9,29] and paper [30]).

The method for determining the UV brightnesses, of necessity, has been a computer-based process using a standardized procedure, which in turn is based on the modeling and detailed hand analysis of a few typical images. Therefore, this Catalog does not by any means exhaust the full potential for either sensitivity or accuracy in measuring the image intensities. Many objects detectable on the original negatives have likely been omitted because of their peak densities being below the threshold of the STAR DETECTION program; also possible is that spurious objects are listed or that some objects appear too bright, because of overlap by other star images or confusion with emulsion defects. As was mentioned, the most accurate and sensitive method for studying an object of particular interest is based on the use of mosaic printouts of PDS density in each pixel in the vicinity of the object. These can be provided by the authors upon request or can be generated from the data on file at the National Space Science Data Center.



## THE CATALOG

The revised Catalog listing is divided into 11 parts, each covering one field in the sky. Each part is headed by a constellation name and the field-center coordinates: right ascension and declination (1950). Two parts were needed to cover the Sagittarius field because of computer storage limitations; one is headed SAGITTARIUS WEST and the other is headed SAGITTARIUS EAST, with right ascensions increasing smoothly from the first to the second.

The Catalog column headings and meanings are as follows:

1. OBJECT NO., starting with the number 1 in each field.
2. EXP. & FILTER, the exposure in minutes followed by L for LiF filter (passband from 1050 to 1600 Å) or C for CaF<sub>2</sub> filter (passband from 1250 to 1600 Å). From this entry it is possible to deduce the frame number (not listed), using Table 1. In the Grus field, where there are two sequences of exposures, the order of the listing is A68, A88, A69, A72, A92, A73, A93, A94, and in the Aquarius field, the order is A150, A151, A171, A152, A172, A155, A175, A156, A176, A157, A177.
- 3 and 4. X and Y, the scan coordinates of the object's peak density.
- 5 and 6. R.A. and DEC., the SAO Catalog right ascension and declination (1950).
7. SAO NO., star number in the Smithsonian Astrophysical Observatory Catalog [11]. In a few cases, when the star is not listed in the SAO Catalog, the Henry Draper catalog number is given with the prescript HD. The entry NO means that there is no SAO CATALOG APOLLO star within 10 arc-min of the measured image position and that the same image is detected on other S201 frames. For these NOs the celestial coordinates in columns 4 and 5 are means for all the frames. In the Mensa field, NOs in the Large Magellanic Cloud are identified as NO LMC. (Reference 9 presents the LMC observations in more detail.) There are 554 NOs in the Catalog, representing 252 separate objects. Nonstellar objects are designated by N followed by the RNGC number [20] or by a planetary-nebula name [21]. A blank in column 5 means that the image was recorded on one frame only. If the SAO number is followed by a slash (/) or a colon (:), the star is one of a pair or group too close to be resolved by the S201 camera. That is, either star could be identified with the image. The colon is used to indicate alternative stars very unlikely to be the source of the image. A query (?) indicates that the measured position is between 5 and 10 arc-min from the cataloged position (considered a doubtful identification). Thus a slash indicates "alternative," a query "positional discrepancy," and a colon "magnitude-spectrum discrepancy."
- 8 and 9.  $\Delta$ R.A. and  $\Delta$ DEC., the differences in coordinates: measured coordinates minus Catalog coordinates. In the case of NOs the differences are from the mean position listed in columns 5 and 6.
- 10, 11 and 12. SPEC. TYPE, V MAG., and P MAG., the spectral type, visual magnitude, and photographic magnitude listed in the SAO Catalog [11]. The entry ".00" means that the photographic magnitude is unknown.
13. PEAK DEN., the uncorrected peak density in units of 0.01D at scan coordinates x, y given in columns 3 and 4. The measured right ascension and declination of the image were calculated from these scan coordinates of the peak position.

14. NO. OF POINTS, the number of pixels more than 20 units (0.2D) above the local background in the star image.
15. BG, the local background, an average of 5 pixels outside the star image. If the value is followed by a query (?), the background was considered uncertain, usually due to irregularities near that image.
16. DENSITY VOLUME, the sum of measured density minus background (BG) for the number of pixels within the image "boundary." In parts of the text, the symbol  $V_M$  is used for this measured density-volume, and  $V_C$  is used for the first-stage corrected density-volume. If the density-volume is followed by a query (?), there is some uncertainty due to overexposure or irregular background.  $\underline{D}$  signifies overlapping images. The symbols  $H$  and  $L$  indicate that the density-volume is too large (high) or too small (low) for the identified star.
17. CORR. V/E, the fully corrected density-volume divided by exposure time, in units of 0.01D/min. Corrections for nonlinearity, PDS microdensitometer lag, truncation, and over-under image density have been made as was explained in the data-analysis section.
18. UV MAG, the ultraviolet magnitude. The conversion of CORR. V/E to UV MAG. is given by Eqs. (12a) and (12b).

If the value of the density-volume is more than twice as large as the average for the star's visual magnitude and spectral type, the entry in column 15 is flagged with an H (for high) after the entry. In some cases these entries may indicate misidentifications, but in most cases the H flags indicate stars with peculiarly high far-UV flux, worthy of further study. If the density-volume is less than half the average, the symbol L is entered in column 15. These H and L flags are not precise; they are based on the trends of density-volume divided by exposure with magnitude and spectral type, not on comparison with stellar models.

The Revised S201 Catalog Tape is of nearly the same format as that described in Appendix B of NRL Report 8173 (cited on the inside front cover). Tables B1 and B2 from that report have been modified appropriately and are reproduced here as Tables 22 and 23.

#### ACKNOWLEDGMENTS

We appreciate the expert help of Drs. William P. Bidelman and Nicholas Sanduleak of the Warner and Swasey Observatory, Case Western Reserve University, in identifying some of the anomalous stars in the Catalog listing. We also thank Richard E. Hill of Lockheed Electronics Co., Houston, who created the computer programs for detecting stellar images, summing density-volumes, and converting scan coordinates to celestial coordinates. The 8 years' work on this Catalog was partly supported by NASA grant NASW-3023.

Table 22 — Meanings of Characters in Each Data Line

Characters	Meaning (digits right-justified)
1- 6	Object number
7- 12	x raster coordinate
13- 18	y raster coordinate
19- 23	Hours of right ascension (R.A.)
24	Separator (.)
25- 26	Minutes of R.A.
27	Separator (.)
28- 29	Seconds of R.A.
30- 34	Degrees of declination (DEC.)
35	Separator (.)
36- 37	Arc-minutes of DEC.
38	Separator (.)
39- 40	Arc-seconds of DEC.
41- 43	Blank
44- 49	SAO star number, or NO, or blank
50	Query (?) or colon (:) or slash (/) or blank
51- 55	Minutes in deviation of R.A. from SAO star
56	Separator (.)
57- 58	Seconds in deviation of R.A. from SAO star
59- 63	Arc-minutes in deviation of DEC. from SAO star
64	Separator (.)
65- 66	Arc-seconds in deviation of DEC. from SAO star
67- 69	Blank
70- 71	Spectral type of SAO star
72- 78	Visual magnitude of SAO star
79- 85	Photographic magnitude of SAO star (zeros = unknown)
86- 91	Peak density of the image
92- 99	Total number of points in the image
100	Query or blank
101-105	Local background density
106	Query or blank
107-114	Density volume of image
115	Query or blank
116	H or L or blank
117-121	Exposure time rounded off to tenths of minutes
122	Filter type (L or C)
123-132	Density volume divided by exposure time*

\*For an image near the edge of the field, the letters ED replace the numerals for hundredths and thousandths (characters 131 and 132).

Table 23 — Fortran Program to Extract Data from the S201 Revised Catalog Tape

```

1:      DIMENSION HEAD (22)
2:      DO 20 IFILE=1,11
3:          3      READ (1,2000,END=5) HEAD
4:      2000      FORMAT (22A6)
5:      GO TO 15
6:          5      WRITE (6,1111)
7:      1111      FORMAT (1H1, 'SECOND END OF FILE HAS BEEN READ')
8:      READ (1,2000,END=20) HEAD
9:          15      WRITE (6,2000) HEAD
10:     READ (1,2000) HEAD
11:     WRITE (6,2000) HEAD
12:     READ (1,2000) HEAD
13:     WRITE (6,2000) HEAD
14:     READ (1,2000) HEAD
15:     LINE=0
16:     10      READ (1,2005,END=20,ERR=17) LINEN,EXP,FTYPE,IX,IY,IRAH,IRAM,IRAS,IDECD,
17:     $ IDECM,IDECS,NSAO,Q1,JRAM,JRAS,JDECM,JDECS,SPECT,VMAG,PMAG,
18:     $ IPEAKD,NPOINT,Q2,IBG,Q3,IDVOL,Q4,Q5,ICDEN,Q6,UVM
19:     2005      FORMAT (16,I6,I5,I5,1X,I2,1X,I2,I4,1X,I2,1X,I2,I9,A1,I5,1X,I2,I4,
20:     $ 1X,I2,A5,F7.2,F6.2,I6,I6,A1,I5,A1,I8,2A1,F5.1,A1,I8,A1,F7.2)
21:C
22:C
23:C
24:     GO TO 18
25:     17      WRITE (6,1010)
26:     1010      FORMAT (1H0, 'ERROR IN READING DATA')
27:     18      WRITE (6,2005) LINEN,EXP,FTYPE,IX,IY,IRAH,IRAM,IRAS,IDECD,IDECM
28:     $ IDECS,NSAO,Q1,JRAM,JRAS,JDECM,JDECS,SPECT,VMAG,PMAG,IPEAKD,
29:     $ NPOINT,Q2,IBG,Q3,IDVOL,Q4,Q5,ICDEN,Q6,UVM
30:C
31:C
32:C
33:     LINE=LINE + 1
34:     IF(LINE.LT.50) GO TO 10
35:     GO TO 3
36:     20      CONTINUE
37:     30      STOP
38:     END

```

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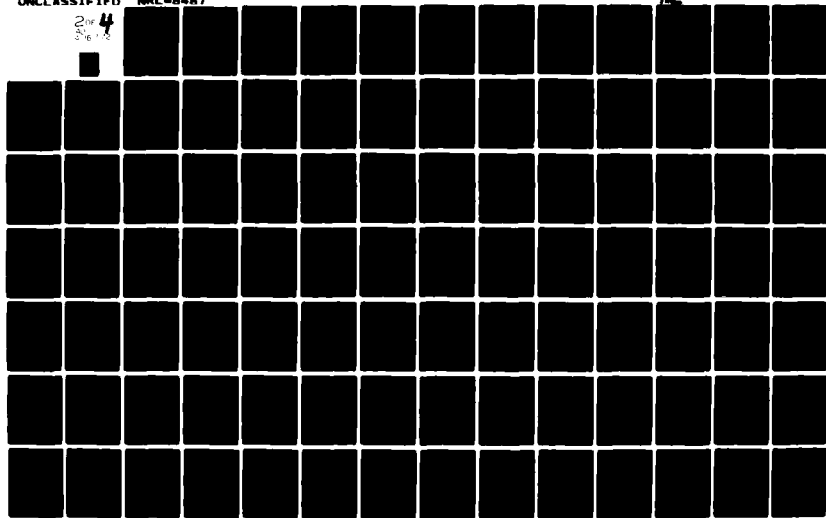
NAVAL RESEARCH LAB WASHINGTON DC  
5201 CATALOG OF FAR-ULTRAVIOLET OBJECTS. REVISED.(U)  
MAY 82 T PAGE, G R CARRUTHERS, H M HECKATHORN

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**Revised**  
**S201 Catalog**  
**Listing**

93/94



NRL REPORT 8487

CYGNUS, R.A. 21:24 DEC. +37:30 (6 FRAMES)

OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAO NO.	Δ R.A.	Δ DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	BG	DENSITY VOLUME	CORR. V/E	UV MAG.
1	3.0C	932	463	20:35:18	38:46:46	70276	0:0	-1:0	A0	8.70	8.70	32	0	15	0	90	8.27
2	10.0C	989	460	20:35:18	38:46:46	70276	0:7	-1:29	A0	8.70	8.70	40	2	19	41	81	8.39
3	3.7C	990	468	20:35:18	38:46:46	70276	0:3	-5:16	A2	8.40	8.20	50	8	18	223	110	8.35
4	10.0C	977	631	20:36:15	35:27:34	70314	-0:8	1:52	B8	5.93	5.93	50	14	23	330 L	4.68	8.05
5	.25L	959	388	20:37:43	40:24:6	49899/	-0:4	2:37	B8	5.93	5.93	180	102	57	5549	7168	4.45
6	1.0L	977	383	20:37:43	40:24:6	49899/	-0:1	2:50	B8	5.93	5.93	362	138	129	12952	6230	4.29
7	3.0C	982	386	20:37:43	40:24:6	49899/	-0:18	2:15	B8	5.93	5.93	266	110	16	9929	5000	3.89
8	3.0C	988	381	20:37:43	40:24:6	49899/	-0:3	2:35	B8	5.93	5.93	400	203	20	26836	4430	4.02
9	10.0C	985	378	20:37:43	40:24:6	49899/	0:2	1:39	B8	5.93	5.93	307	130	18	12758	5450	3.79
10	3.7C	957	386	20:37:43	40:24:6	49899/	-0:13	1:27	B8	8.90	8.90	50	14	23	330	5788	4.68
11	.25L	959	388	20:37:49	40:24:31	49902/	-0:9	2:12	B8	8.90	8.90	180	102	57	5549	7168	4.45
12	1.0L	957	383	20:37:49	40:24:31	49902/	-0:5	2:25	B8	8.90	8.90	382	138	129	12952	6230	4.29
13	3.0L	962	386	20:37:49	40:24:31	49902/	-0:24	1:50	B8	8.90	8.90	266	110	16	9929	5000	3.89
14	3.0C	908	381	20:37:49	40:24:31	49902/	-0:8	2:10	B8	8.90	8.90	430	203	20	26836	4430	4.02
15	10.0C	955	378	20:37:49	40:24:31	49902/	-0:4	1:14	B8	8.90	8.90	307	130	18	12758	5450	3.79
16	3.7C	957	386	20:37:49	40:24:31	49902/	-0:5	4:25	B9	6.92	6.92	172	33	129	999	540	7.27
17	3.0L	950	354	20:39:4	41:1:24	49929/	-0:25	2:47	B9	6.92	6.92	67	35	15	1171	715	6.01
18	3.0C	896	350	20:39:4	41:1:24	49929/	-0:10	3:3	B9	6.92	6.92	164	77	20	4992	799	5.89
19	10.0C	953	347	20:39:4	41:1:24	49929/	-0:6	3:20	B9	6.92	6.92	80	42	18	1354	630	6.15
20	3.7C	955	354	20:39:4	41:1:24	49929/	0:10	-0:31	B9	6.44	6.44	309	97	133	5822 H	2760	4.54
21	3.7C	954	505	20:39:5	38:1:33	NO	0:6	-0:26	B9	6.44	6.44	193	83	15	5822 H	2760	4.54
22	1.0L	950	459	20:39:7	38:54:12	70367	-0:15	-1:9	B9	6.44	6.44	397	143	19	17077 H	2820	4.51
23	3.0L	945	462	20:39:7	38:54:12	70367	0:7	-0:27	B9	6.44	6.44	225	94	18	7275 H	2820	4.51
24	3.0C	893	457	20:39:7	38:54:12	70367	0:4	-0:14	B9	6.44	6.44	82	9	58	201	580	7.19
25	10.0C	949	454	20:39:7	38:54:12	70367	0:7	-2:37	B9	8.30	8.00	192	38	137	12610H	700	6.98
26	3.7C	942	629	20:39:36	35:33:6	70380	-0:11	-5:5	B9	8.30	8.00	76	32	21	59170H	688	6.05
27	1.0L	942	629	20:39:36	35:33:6	70380	0:1	-3:34	B9	8.30	8.00	91	43	22	1721 H	670	6.08
28	3.0L	937	632	20:39:36	35:33:6	70380	-0:15	2:51	B8	5.60	5.60	61	26	22	704	6968	4.48
29	3.0C	886	628	20:39:36	35:33:6	70380	-0:4	3:35	B8	5.60	5.60	194	99	58	5785	7272	4.43
30	10.0C	943	625	20:39:36	35:33:6	70380	-0:12	3:40	B8	5.60	5.60	395	137	128	13855	8200	4.30
31	3.7C	945	632	20:39:36	35:33:6	70380	-0:19	3:31	B8	5.60	5.60	292	113	16	10874	5500	3.78
32	.25L	938	331	20:40:8	41:32:13	49946	-0:6	3:44	B8	5.60	5.60	436	189	21	27391	4520	4.00
33	1.0L	945	326	20:40:8	41:32:13	49946	-0:7	3:57	B8	5.60	5.60	340	126	19	13150	5550	3.77
34	3.0L	941	329	20:40:8	41:32:13	49946	0:19	-1:59	B8	9.10	9.60	62	34	24	950 H	8416	4.27
35	3.0C	886	324	20:40:8	41:32:13	49946	0:16	-1:7	B8	9.10	9.60	233	104	62	7068 H	12500	3.84
36	10.0C	943	321	20:40:8	41:32:13	49946	0:14	-1:7	B8	9.10	9.60	419	151	133	162670H	13100	3.79
37	3.7C	946	328	20:40:8	41:32:13	49946	-0:3	-4:4	B8	9.10	9.60	322	118	17	11944 H	6100	3.67
38	.25L	926	648	20:40:12	35:15:26	70400/	0:8	-2:15	B8	9.10	9.60	433	202	21	289120H	4830	3.93
39	1.0L	934	643	20:40:12	35:15:26	70400/	0:15	-1:59	B8	9.10	9.60	364	137	20	14836 H	6350	3.63
40	3.0L	929	646	20:40:12	35:15:26	70400/	0:6	-3:6	B3	6.50	6.50	62	34	24	950	8416	4.27
41	3.0C	878	642	20:40:12	35:15:26	70400/	0:3	-2:15	B3	6.50	6.50	233	104	62	7068	12500	3.84
42	10.0C	935	639	20:40:12	35:15:26	70400/	0:2	-2:14	B3	6.50	6.50	419	151	133	162670	13100	3.79
43	3.7C	936	646	20:40:12	35:15:26	70400/	-0:15	-5:55	B3	6.50	6.50	322	118	17	11944	6100	3.67
44	.25L	926	648	20:40:24	35:16:33	70406/	-0:4	-3:23	B3	6.50	6.50	433	202	21	289120	4830	3.93
45	1.0L	934	643	20:40:24	35:16:33	70406/	0:3	-3:6	B3	6.50	6.50	364	137	20	14836	6350	3.63
46	3.0L	929	646	20:40:24	35:16:33	70406/	0:1	-2:40	B2	8.40	8.30	48	8	20	203 L	8.24	8.24
47	3.0C	878	642	20:40:24	35:16:33	70406/											
48	10.0C	935	639	20:40:24	35:16:33	70406/											
49	3.7C	936	646	20:40:24	35:16:33	70406/											
50	10.0C	931	591	20:40:44	36:12:0	70410											

## PAGE, CARRUTHERS, AND HECKATHORN

CYGNUS, R.A. 21:24 DEC. +37:30 (6 FRAMES)																	
OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAO NO.	A R.A.	A DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	BG	DENSITY VOLUME	CORR. V/E	UV MAG.
51	3.0C	869	626	20:41:7	35:34:58	70416/	0:2	-5:28	A0	8.40	8.60	44	11	16	264	262	7.11
52	10.0C	925	623	20:41:7	35:34:58	70416/	0:12	-2:58	A0	8.40	8.60	99	55	21	24130H	365	6.74
53	3.7C	928	630	20:41:7	35:34:58	70416/	0:7	-2:45	A0	8.40	8.60	53	19	18	516	284	7.02
54	1.0L	924	727	20:41:14	33:33:1	70417/	0:6	-2:57	A0	8.00	7.60	86	22	58	524	910	6.70
55	3.0L	919	729	20:41:14	33:33:1	70417/	0:3	-1:45	A0	8.00	7.60	202	58	129	2421 H	1500	6.15
56	3.0C	868	725	20:41:14	33:33:1	70417/	0:9	-5:34	A0	8.00	7.60	92	62	15	2610 H	1210	5.44
57	10.0C	924	722	20:41:14	33:33:1	70417/	0:8	-2:46	A0	8.00	7.60	216	123	20	94560H	1313	5.35
58	3.7C	926	729	20:41:14	33:33:1	70417/	0:8	-2:30	A0	8.00	7.60	107	73	17	34370H	1290	5.37
59	10.0C	929	376	20:41:17	40:36:30	49974?	0:3	-7:24	A2	8.00	8.20	74	35	18	1263	225	7.27
60	3.0C	869	626	20:41:18	35:33:38	70420/	0:11	-4:7	A0	8.10	7.90	44	11	16	264	447*	6.52
61	3.0C	863	624	20:41:18	35:33:38	70420/	0:19	-1:34	A0	8.10	7.90	49	4	17	114		
62	10.0C	925	623	20:41:18	35:33:38	70420/	0:1	-1:38	A0	8.10	7.90	99	55	21	2413 H	365	6.74
63	3.7C	928	630	20:41:18	35:33:38	70420/	0:6	-1:24	A0	8.10	7.90	53	19	18	516	284	7.02
64	10.0C	929	376	20:41:20	40:26:52	49977/	0:0	2:14	A0	8.30	8.30	74	35	18	1263	225	7.27
65	1.0L	924	727	20:41:23	33:41:15	70422/	0:3	-5:11	A0	7.80	7.30	86	22	58	524	910	6.70
66	3.0L	919	729	20:41:23	33:41:15	70422/	0:6	-3:59	A0	7.80	7.30	202	58	129	2421 H	1500	6.15
67	3.0C	868	725	20:41:23	33:41:15	70422/	0:19	-7:48	A0	7.80	7.30	92	62	15	2610 H	1210	5.44
68	10.0C	924	722	20:41:23	33:41:15	70422/	0:1	-5:0	A0	7.80	7.30	216	123	20	94560H	1313	5.35
69	3.7C	926	729	20:41:23	33:41:15	70422/	0:1	-4:43	A0	7.80	7.30	107	73	17	34370H	1290	5.37
70	3.0C	863	624	20:41:37	35:24:41	70425?	0:2	7:22	A0	8.90	9.50	49	4	17	114	185	7.48
71	3.0L	914	717	20:41:52	33:53:21	70432	0:7	-2:21	A0	8.50	7.70	147	3	129	60	96	9.15
72	10.0C	919	710	20:41:52	33:53:21	70432	0:2	-3:25	A0	8.50	7.70	79	52	20	18340H	300	6.96
73	3.7C	921	717	20:41:52	33:53:21	70432	0:2	-3:12	A0	8.50	7.70	41	6	17	1330	236	7.22
74	10.0C	925	315	20:42:0	41:39:38	49999	0:7	3:6	A	7.70	8.40	58	23	20	667	155	7.68
75	10.0C	911	233	20:43:43	43:27:8	50028/	0:4	4:34		8.90	9.30	53	18	21	481	149	7.72
76	10.0C	911	233	20:43:58	43:15:42	50034?	0:10	6:52		8.60	8.40	53	18	21	481	149	7.72
77	3.0L	880	803	20:44:45	32:14:8	70480	0:1	-4:11	89	7.20	7.10	159	15	129	385 L	261	8.06
78	3.0C	830	799	20:44:45	32:14:8	70480?	0:10	-7:48	89	7.20	7.10	50	22	17	579 L	380	6.70
79	10.0C	887	795	20:44:45	32:14:8	70480	0:5	-3:32	89	7.20	7.10	115	68	20	34320	457	6.50
80	3.7C	889	803	20:44:45	32:14:8	70480	0:5	-4:33	89	7.20	7.10	62	26	22	730 L	353	6.78
81	10.0C	895	632	20:44:46	35:26:46	70482?	0:31	-7:2		9.00	9.40	84	33	21	1303 H	215	7.32
82	3.7C	897	640	20:44:46	35:26:46	70482?	0:30	-6:53		9.00	9.40	45	10	17	243	204	7.38
83	10.0C	888	692	20:44:47	34:11:21	70483	0:7	-1:27	A5	9.00	8.90	46	8	20	186	93	8.24
84	10.0C	891	534	20:44:48	37:17:7	70484	0:6	-1:6	A0	8.90	8.80	53	11	20	295	92	8.25
85	10.0C	883	809	20:44:59	31:58:22	70491/	0:5	-5:8	A0	8.80	8.80	63	28	22	816	132	7.85
86	10.0C	883	809	20:45:5	31:59:14	70498?	0:1	-6:0	A0	7.70	7.60	63	28	22	816DL	132	7.85
87	1.0L	897	291	20:45:21	42:13:31	50055	0:7	4:16	89	7.06	.00	89	9	61	216 L	581	7.19
88	3.0L	892	294	20:45:21	42:13:31	50055	0:7	4:11	89	7.06	.00	197	43	130	1654	945	6.66
89	3.0C	838	289	20:45:21	42:13:31	50055?	0:22	3:16	89	7.06	.00	84	37	15	1516	760	5.94
90	10.0C	894	286	20:45:21	42:13:31	50055	0:4	4:49	89	7.06	.00	205	80	21	5867	770	5.93
91	3.7C	897	294	20:45:21	42:13:31	50055	0:5	4:49	89	7.06	.00	107	46	18	2131	830	5.85
92	25L	875	592	20:45:27	36:18:21	70505	0:6	-0:1	85	4.47	.00	171	69	25	4179	21600	3.24
93	1.0L	883	588	20:45:27	36:18:21	70505	0:3	-0:25	85	4.47	.00	420	142	61	17330	34590	2.77
94	3.0L	877	590	20:45:27	36:18:21	70505	0:10	-0:37	85	4.47	.00	453	235	141	26832 L	33400	2.77
95	3.0C	826	586	20:45:27	36:18:21	70505	0:2	-2:19	85	4.47	.00	430	194	19	23527 L	13100	2.84
96	10.0C	883	583	20:45:27	36:18:21	70505	0:6	-1:7	85	4.47	.00	454	405	21	51657 L	8940	3.25
97	3.7C	885	591	20:45:27	36:18:21	70505	0:8	-1:1	85	4.47	.00	433	234	20	28034 L	13000	2.85
98	10.0C	875	806	20:45:49	32:3:4	70513?	0:2	-6:12	A0	9.00	9.40	49	33	22	799	184	7.49
99	1.0C	888	304	20:45:51	41:53:0	50066	0:0	3:1	A0	7.20	7.60	61	18	20	582 L	125	7.91
100	10.0C	875	806	20:45:53	31:57:42	70514/	0:2	-0:50	A0	8.50	8.80	49	33	22	799	184	7.49

NRL REPORT 8487

CYGNUS. R.A. 21:24 DEC. +37:30 (6 FRAMES)

OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAO NO.	Δ R.A.	Δ DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	BG	DENSITY VOLUME	CORR. V/E	UV MAG.
101	10.0C	873	566	20:46:29	36:37:59	70525	0:6	-0:43		8.90	9.10	54	18	21	452	92	8.25
102	3.0L	866	619	20:46:38	35:43:30	70527	0:5	0:19		9.00	9.00	165	7	138	166	175	8.50
103	3.0C	814	615	20:46:38	35:43:30	70527	0:1	-2:36		9.00	9.00	43	7	17	157	209	7.35
104	10.0C	873	612	20:46:38	35:43:30	70527	0:4	-1:17		9.00	9.00	101	35	21	1584	243	7.19
105	3.7C	873	619	20:46:38	35:43:30	70527	0:5	0:2		9.00	9.00	51	11	17	303	218	7.31
106	10.0C	867	734	20:46:40	33:22:36	70528	0:8	-2:40	A2	8.80	9.10	50	12	20	307	106	8.09
107	1.0L	869	607	20:46:55	35:53:9	NO*	0:1	0:54				87	6	62	136	491	7.37
108	3.0L	864	610	20:46:55	35:53:9	NO*	0:1	0:38				201	33	138	1263	710	6.97
109	3.0C	812	606	20:46:55	35:53:9	NO*	-0:3	-2:13				76	25	15	929	515	6.37
110	10.0C	869	603	20:46:55	35:53:9	NO*	-0:1	0:19				174	57	21	3731	630	6.15
111	3.7C	871	610	20:46:55	35:53:9	NO*	0:0	0:23				88	31	17	1246	520	6.36
112	10.0C	868	563	20:46:59	36:41:26	70534	0:0	0:25		9.10	9.31	51	12	21	306	91	8.26
113	1.0L	870	468	20:47:6	38:40:44	70539	0:14	1:3	A0	7.60	7.10	111	22	61	740	1090	6.50
114	3.0L	866	470	20:47:6	38:40:44	70539	0:10	2:4	A0	7.60	7.10	262	46	144	2415	1610	6.07
115	3.0C	813	466	20:47:6	38:40:44	70539	-0:8	-0:23	A0	7.60	7.10	130	39	15	2003	945	5.71
116	10.0C	869	463	20:47:6	38:40:44	70539	0:12	0:30	A0	7.60	7.10	294	69	19	6479	879	5.78
117	3.7C	872	470	20:47:6	38:40:44	70539	0:8	1:47	A0	7.60	7.10	152	45	16	2658	910	5.75
118	3.0L	868	424	20:47:8	38:36:19	70541	0:5	1:35	A0	7.32	.00	196	24	142	798	475	7.41
119	3.0C	814	420	20:47:8	38:36:19	70541	-0:9	0:29	A0	7.32	.00	170	22	13	855	485	6.43
120	10.0C	871	417	20:47:8	38:36:19	70541	0:4	1:15	A0	7.32	.00	90	28	16	1133	485	6.43
121	3.7C	873	424	20:47:8	39:36:19	70541	0:8	2:32	A0	7.32	.00	90	28	16	1133	485	6.43
122	1.0L	880	264	20:47:19	42:46:5	50102	-0:7	4:30	BB	7.40	7.30	79	5	57	106	458	7.45
123	3.0L	876	266	20:47:19	42:46:5	50102?	-0:10	5:16	BB	7.40	7.30	174	36	123	1193	610	7.13
124	3.0C	821	262	20:47:19	42:46:5	50102?	-0:19	3:20	BB	7.40	7.30	65	28	14	953	545	6.31
125	10.0C	877	259	20:47:19	42:46:5	50102	-0:1	4:52	BB	7.40	7.30	162	71	21	4243	513	6.37
126	3.7C	880	266	20:47:19	42:46:5	50102	-0:9	4:55	BB	7.40	7.30	83	36	19	1313	550	6.30
127	10.0C	869	326	20:47:43	41:25:50	50112	0:1	2:59	A0	8.90	8.40	64	20	19	605	106	8.09
128	1.0L	858	595	20:47:59	36:8:32	70555	0:5	-0:53	BB	8.50	8.30	120	26	64	908	1260	6.34
129	3.0C	833	597	20:47:59	36:8:32	70555	0:5	0:4	BB	8.50	8.30	271	50	140	2980	2000	5.84
130	3.0C	801	593	20:47:59	36:8:32	70555	-0:1	-2:39	BB	8.50	8.30	132	38	18	2003	930	5.72
131	10.0C	857	590	20:47:59	36:8:32	70555	0:8	-0:7	BB	8.50	8.30	293	80	21	69530	1004	5.64
132	3.7C	850	598	20:47:59	36:8:32	70555	0:3	-1:20	BB	8.50	8.90	73	21	21	7190	130	7.87
133	10.0C	851	579	20:48:42	36:21:25	50125	-0:2	3:49	BB	7.20	7.10	108	29	58	915	1300	6.31
134	1.0L	853	292	20:48:50	42:11:38	50125	-0:2	3:35	BB	7.20	7.10	245	53	128	2944	1800	5.95
135	3.0C	804	291	20:48:50	42:11:38	50125	-0:16	1:42	BB	7.20	7.10	121	45	16	2899	1080	5.56
136	3.0C	804	291	20:48:50	42:11:38	50125	-0:16	1:42	BB	7.20	7.10	121	45	16	2899	1080	5.56
137	10.0C	861	288	20:48:50	42:11:38	50125	-0:5	3:22	BB	7.20	7.10	288	92	21	8110	1170	5.47
138	3.7C	863	295	20:48:50	42:11:38	50125	-0:5	3:23	BB	7.20	7.10	148	55	19	3052	1080	5.56
139	10.0C	845	722	20:48:54	33:34:17	70573	0:5	-2:12	BB	8.80	8.80	48	7	20	176	80	8.40
140	10.0C	848	595	20:48:58	33:57:5	70580	-0:6	4:59		9.40	9.90	51	8	21	206	109	8.06
141	10.0C	855	275	20:49:31	42:26:34	50137	0:2	3:25	A0	8.70	8.30	78	38	21	1238	194	7.43
142	10.0C	843	541	20:49:32	37:5:53	70586	0:3	0:3	A0	8.80	8.80	72	20	19	677	127	7.90
143	1.0L	845	510	20:49:35	37:48:3	70590	0:8	0:51	BB	6.97	.00	115	21	62	737	1080	6.51
144	3.0L	840	513	20:49:35	37:48:3	70590	-0:3	0:32	BB	6.97	.00	266	40	143	2226	1500	6.15
145	3.0C	787	509	20:49:35	37:48:3	70590	0:1	-0:36	BB	6.97	.00	131	31	17	1634	765	5.94
146	10.0C	844	506	20:49:35	37:48:3	70590	0:8	0:29	BB	6.97	.00	287	72	19	5973	995	5.65
147	3.7C	846	513	20:49:35	37:48:3	70590	0:5	0:28	BB	6.97	.00	158	37	18	2194	810	5.87
148	25L	823	778	20:49:58	32:39:36	70596	0:4	-1:48	BB	6.35	.00	65	26	24	752	6848	4.50
149	1.0L	831	773	20:49:58	32:39:36	70596	0:7	-2:12	BB	6.35	.00	238	89	61	6151	9950	4.09
150	3.0L	826	776	20:49:58	32:39:36	70596	0:4	-1:22	BB	6.35	.00	410	128	130	13400	10400	4.04

# PAGE, CARRUTHERS, AND HECKATHORN

CYGNUS, R.A. 21:24 DEC. +37:30 (6 FRAMES)

OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAO NO.	Δ R.A.	Δ DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	BO	DENSITY VOLUME	CORR. V/E	UV MAG.
151	3.0C	775	772	20:49:58	32:39:36	70596	0: 1	-4:17	85	6.35	.00	335	104	19	10562	5300	3.82
152	10.0C	832	769	20:49:58	32:39:36	70596	0: 5	-2:31	85	6.35	.00	428	188	22	25855	4340	4.04
153	3.7C	834	777	20:49:58	32:39:36	70596	0: 4	-2:29	85	6.35	.00	371	131	18	13687	5800	3.73
154	.25L	826	684	20:50: 3	34:28: 8	70599	0: 6	-1:51	82	6.90	.00	49	10	24	224 L	3236	5.31
155	1.0L	834	679	20:50: 3	34:28: 8	70599	0: 9	-1: 1	82	6.90	.00	188	48	64	2783	3650	5.18
156	3.0L	829	681	20:50: 3	34:28: 8	70599	0: 8	-0:10	82	6.90	.00	376	76	140	68620	5450	4.74
157	3.0C	778	678	20:50: 3	34:28: 8	70599	0: 1	-4: 6	82	6.90	.00	257	63	18	54150	2400	4.69
158	10.0C	834	675	20:50: 3	34:28: 8	70599	0: 9	-1:20	82	6.90	.00	401	142	21	156130	2266	4.75
159	3.7C	836	682	20:50: 3	34:28: 8	70599	0:10	-1:20	82	6.90	.00	305	73	19	67990	2500	4.84
160	3.0L	826	654	20:50:11	35: 1:28	70603/	0:20	-2:20		8.80	9.30	163	4	140	81	122	8.89
161	10.0C	831	647	20:50:11	35: 1:28	70603/	0:21	-2:12		8.80	9.30	83	31	20	1118	175	7.55
162	3.7C	833	654	20:50:11	35: 1:28	70603/	0:21	-0:59		8.80	9.30	48	6	21	146	161	7.64
163	.25L	832	531	20:50:13	37:19:48	70606?	-0:10	8: 9	A2	8.70	8.60	66	9	25	276 H	1936	5.87
164	1.0L	837	534	20:50:13	37:19:48	70606	0: 5	0: 8	A2	8.70	8.60	72	0	61	0	294	7.93
165	3.0L	833	536	20:50:13	37:19:48	70606	0: 0	0:42	A2	8.70	8.60	163	5	140	105	318	7.94
166	10.0C	837	529	20:50:13	37:19:48	70606	0: 0	1: 6	A2	8.70	8.60	88	29	19	1142 H	199	7.41
167	3.7C	839	537	20:50:13	37:19:48	70606	0: 2	-0:12	A2	8.70	8.60	44	8	16	192 H	186	7.48
168	.25L	832	531	20:50:14	37:36: 7	70607?	-0:10	-8: 9		9.20	9.80	66	9	25	276 H	2950	5.41
169	10.0C	839	460	20:50:15	38:43:16	70608	0: 2	0:24		8.90	9.30	55	10	19	286	77	8.44
170	10.0C	839	487	20:50:15	38:43:16	70608	0: 2	0:24		8.90	9.30	55	9	20	252?	65	8.63
171	10.0C	841	308	20:50:44	41:47:24	50162	0: 1	2:44	A0	8.00	7.80	47	10	18	248 L	93	8.24
172	3.0L	826	654	20:50:54	35: 8:51	70623?	-0:23	-9: 3		8.50	8.80	163	4	140	81	122	8.89
173	10.0C	831	647	20:50:54	35: 8:51	70623?	-0:22	-9:35		8.50	8.80	83	31	20	1118	175	7.95
174	3.7C	833	654	20:50:54	35: 8:51	70623?	-0:22	-8:22		8.50	8.80	48	6	21	146	161	7.64
175	3.0L	819	676	20:51: 3	34:33:43	70626	0: 3	0:12	89	7.80	7.70	184	22	137	6990	405	7.58
176	3.0C	768	672	20:51: 3	34:33:43	70626	0: 2	-2:23	89	7.80	7.70	64	19	15	6510	405	6.33
177	10.0C	824	669	20:51: 3	34:33:43	70626	0:10	-0:52	89	7.80	7.70	161	35	21	22840	409	6.62
178	3.7C	826	677	20:51: 3	34:33:43	70626	0:10	-0:55	89	7.80	7.70	80	27	20	9650	425	6.58
179	3.0C	778	289	20:51:24	42:10:22	50179?	-0: 1	5:24		8.80	8.90	98	30	17	1314	660	6.10
180	3.0L	805	875	20:51:27	30:45:40	70633	-0: 9	-4:32	89	7.70	7.70	175	40	129	1232 H	660	7.05
181	3.0C	756	873	20:51:27	30:45:40	70633?	-0:13	-8:43	89	7.70	7.70	61	33	18	997 H	560	6.28
182	10.0C	812	870	20:51:27	30:45:40	70633?	-0: 3	-6:47	89	7.70	7.70	142	85	20	5027 H	740	5.97
183	3.7C	814	877	20:51:27	30:45:40	70633?	-0:10	-5:26	89	7.70	7.70	73	43	18	1462 H	610	6.18
184	.25L	840	195	20:51:28	44:11:49	50180	-0:12	4:43	83	4.68	.00	136	87	21	4661	23284	3.16
185	1.0L	848	191	20:51:28	44:11:49	50180	-0: 8	4: 5	83	4.68	.00	424	176	62	21418	48500	2.36
186	3.0L	844	193	20:51:28	44:11:49	50180	-0:12	5: 2	83	4.68	.00	465	275	133	35659	40500	2.56
187	3.0C	788	190	20:51:28	44:11:49	50180	-0:17	2:19	83	4.68	.00	438	238	15	29435	17700	2.51
188	10.0C	845	187	20:51:28	44:11:49	50180	-0: 8	3:48	83	4.68	.00	464	448	30	55901 L	9880	3.15
189	3.7C	847	194	20:51:28	44:11:49	50180	-0: 8	3:48	83	4.68	.00	449	237	24	32768	15300	2.67
190	10.0C	820	645	20:51:35	35: 2:15	70638	0: 4	-0:42	89	7.80	8.00	83	26	20	981 L	176	7.34
191	3.7C	822	652	20:51:35	35: 2:15	70638	0: 4	-0:46	89	7.80	8.00	48	8	17	202 L	185	7.48
192	3.0L	837	291	20:51:36	42:13:12	50183	-0: 1	2: 6	A0	6.47	.00	87	7	60	164 L	515	7.32
193	3.0L	833	293	20:51:36	42:13:12	50183	-0: 1	2:60	A0	6.47	.00	199	29	131	1151	615	7.12
194	3.0C	778	289	20:51:36	42:13:12	50183/	-0:14	2:35	A0	6.47	.00	98	30	17	1314	660	6.10
195	10.0C	835	286	20:51:36	42:13:12	50183/	-0: 4	3: 7	A0	6.47	.00	234	61	21	4946	663	6.09
196	3.7C	837	293	20:51:36	42:13:12	50183	0: 2	3: 3	A0	6.47	.00	116	37	21	1701	665	6.09
197	3.7C	843	157	20:51:48	44:57:52	50187?	0:26	1: 3	A0	8.50	7.80	66	19	23	591	300	6.96
198	1.0L	830	358	20:51:48	40:51:32	50189	0: 6	2:30	A2	7.40	7.50	122	26	61	951 H	1330	6.28
199	3.0L	826	360	20:51:48	40:51:32	50189	-0: 2	3:24	A2	7.40	7.50	278	45	133	28620H	1800	5.95
200	3.0C	772	357	20:51:48	40:51:32	50189	-0:11	0:20	A2	7.40	7.50	146	41	15	2326 H	1070	5.57

NRL REPORT 8487

CYONUS, R.A. 21:24 DEC. +37:30 (6 FRAMES)

OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAO NO.	A. R.A.	A. DEC.	SPEC. TYPE	V. MAG.	P. MAG.	PEAK DEN.	NO. OF POINTS	BO	DENSITY VOLUME	CORR. V/E	UV MAG.
201	10.0C	828	354	20:51:48	40:51:32	50189	0: 6	2:18	A2	7.40	7.50	309	73	21	69590H	1050	5.59
202	3.7C	831	361	20:51:48	40:51:32	50189	0: 4	2:13	A2	7.40	7.50	176	46	17	2921 H	1000	5.94
203	10.0C	834	272	20:51:50	42:30:39	50193	-0: 2	3: 6		8.70	8.60	69	18	21	633	131	7.86
204	10.0C	817	553	20:52:11	36:49:17	NO						77	13	19	461	129	7.88
205	1.0L	840	153	20:52:20	44:55: 9	50205?	0:11	5:33	89	7.60	.00	72	0	55	1377E	1377E	6.24
206	3.0L	835	156	20:52:20	44:55: 9	50205?	0:25	4:52	89	7.60	.00	162	51	125	1342D	1129E	6.46
207	3.0C	783	152	20:52:20	44:55: 9	50205	-0:10	2:21	89	7.60	.00	53	29	15	840D	473	6.46
208	10.0C	840	149	20:52:20	44:55: 9	50205	-0: 1	4:40	89	7.60	.00	127	62	30	3301D	389E	6.67
209	3.7C	843	157	20:52:20	44:55: 9	50205	-0: 8	3:46	89	7.60	.00	66	31	21	881DL	410	6.62
210	1.0L	823	375	20:52:30	40:30:42	50209	0: 2	1:57	88	6.48	.00	163	38	60	1927	2540	5.58
211	3.0L	818	377	20:52:30	40:30:42	50209	0: 0	2:47	88	6.48	.00	345	59	135	4697D	3800	5.14
212	3.0C	764	374	20:52:30	40:30:42	50209	-0: 8	-0:15	88	6.48	.00	207	47	16	3424	1420	5.26
213	10.0C	821	371	20:52:30	40:30:42	50209	0: 3	1:48	88	6.48	.00	366	90	21	9604D	1489	5.21
214	3.7C	823	378	20:52:30	40:30:42	50209	0: 7	1:41	88	6.48	.00	249	56	18	4424	1540	5.17
215	1.0L	812	555	20:52:44	36:52:56	70859	0: 2	0: 6	A0	7.24	.00	97	11	64	285 H	643	7.08
216	3.0L	807	557	20:52:44	36:52:56	70859	0: 3	0:51	A0	7.24	.00	217	24	142	1046 H	605	7.14
217	3.0C	755	554	20:52:44	36:52:56	70859	-0: 4	-1:19	A0	7.24	.00	101	22	15	993 H	530	6.34
218	10.0C	812	551	20:52:44	36:52:56	70859	-0: 3	0: 0	A0	7.24	.00	211	58	19	4056 H	561	6.27
219	3.7C	814	558	20:52:44	36:52:56	70859	-0: 1	-0: 7	A0	7.24	.00	118	28	16	1376 H	545	6.31
220	3.0L	800	695	20:52:49	34: 9:53	70862	0: 8	-0:25	89	8.00	8.10	158	4	134	92 L	129	8.83
221	3.0C	749	692	20:52:49	34: 9:53	70862	0: 3	-2:49	89	8.00	8.10	47	7	16	178 L	219	7.30
222	10.0C	806	689	20:52:49	34: 9:53	70862	0: 5	-1:12	89	8.00	8.10	101	33	19	1445	209	7.35
223	3.7C	808	696	20:52:49	34: 9:53	70862	0: 5	-0: 2	89	8.00	8.10	53	12	16	337 L	230	7.25
224	3.0L	835	156	20:53: 0	44:56:40	50219	-0:15	3:21	89	8.10	7.80	162	51	125	13420H	1129E	6.46
225	3.0C	779	151	20:53: 0	44:56:40	50219	-0:21	3:17	89	8.10	7.80	55	33	15	9480H	672	6.08
226	10.0C	835	148	20:53: 0	44:56:40	50219	-0: 6	4:43	89	8.10	7.80	135	57	30	32510H	445	6.53
227	3.7C	838	156	20:53: 0	44:56:40	50219	-0:12	3:28	89	8.10	7.80	65	29	21	9960H	440	6.54
228	10.0C	819	316	20:53: 2	44:56:49	50221	0: 2	1:57	A0	8.90	8.90	58	12	19	359	87	8.31
229	.25L	812	290	20:53:28	42:19:17	50226	-0: 1	1:19	89	6.89	.00	46	6	23	131	2640	5.53
230	1.0L	820	285	20:53:28	42:19:17	50226	-0: 4	3:15	89	6.89	.00	168	48	59	2455 H	3320	5.28
231	3.0L	816	288	20:53:28	42:19:17	50226	-0: 4	2:50	89	6.89	.00	354	76	128	6498 H	3480	5.23
232	3.0C	761	284	20:53:28	42:19:17	50226	-0:10	1:18	89	6.89	.00	230	57	16	4392 H	1900	4.94
233	10.0C	818	281	20:53:28	42:19:17	50226	-0: 7	1:55	89	6.89	.00	394	112	20	12709 H	2020	4.88
234	3.7C	820	288	20:53:28	42:19:17	50226	-0: 1	3: 3	89	6.89	.00	271	66	18	5580 H	2020	4.88
235	1.0L	812	395	20:53:30	40: 6:28	50230	-0: 2	0:57	80	7.10	7.10	110	16	61	536 L	870	6.75
236	3.0L	808	397	20:53:30	40: 6:28	50230	-0: 4	1:44	80	7.10	7.10	258	37	137	1984 L	1260	6.34
237	3.0C	754	393	20:53:30	40: 6:28	50230	-0: 5	1:13	80	7.10	7.10	125	29	15	1491 L	720	6.00
238	10.0C	811	390	20:53:30	40: 6:28	50230	-0: 7	2: 8	80	7.10	7.10	146	35	17	4850 L	597	6.21
239	3.7C	813	397	20:53:30	40: 6:28	50230	-0: 3	2: 0	80	7.10	7.10	146	35	17	1983 L	730	5.99
240	3.0L	808	425	20:53:44	39:25:50	70878?	-0:30	7:18	A5	8.30	8.70	172	7	135	2107	145	8.70
241	10.0C	819	229	20:53:45	43:21:23	50240?	0: 3	3:17		8.40	8.50	71	43	22	1256	149	7.72
242	10.0C	819	229	20:54: 1	43:22:53	50243?	-0:14	1:51		8.80	9.40	71	43	22	1256	149	7.72
243	10.0C	796	616	20:54: 2	35:34:32	70883?	-0: 6	2:17	88	9.30	9.60	55	8	14	237	72	8.51
244	1.0L	822	192	20:54:12	44:10:52	50247	-0: 6	2:17	88	6.71	.00	88	14	58	3460L	1032	6.56
245	3.0L	819	194	20:54:12	44:10:52	50247	-0:10	3: 8	88	6.71	.00	201	54	127	2198D	1380	6.24
246	3.0C	763	191	20:54:12	44:10:52	50247	-0:14	1:50	88	6.71	.00	99	41	17	1881D	965	5.75
247	10.0C	820	187	20:54:12	44:10:52	50247	-0: 6	3:27	88	6.71	.00	237	85	30	6777D	906	5.68
248	3.7C	822	195	20:54:12	44:10:52	50247	-0: 6	3:27	88	6.71	.00	119	50	21	2453D	910	5.75
249	10.0C	796	616	20:54:13	35:26:12	70885?	-0: 5	7:20	88	8.80	9.40	55	8	19	237	72	8.51
250	10.0C	800	436	20:54:22	39:10:24	70888	-0: 1	1:36	A2	8.70	8.80	73	17	10	578	115	8.00

PAGE, CARRUTHERS, AND HECKATHORN

CYGNUS, R.A. 21:24 DEC. +37.30 (6 FRAMES)

OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAD NO.	A R.A.	A DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	BO	DENSITY VOLUME	CORR. V/E	UV MAG.
251	1.0L	816	240	20:54:23	43:13:53	50253	-0:4	2:6	88	6.79	.00	147	45	58	2066 M	2820	5.46
252	3.0L	812	242	20:54:23	43:13:53	50253	-0:10	2:55	88	6.79	.00	329	72	131	5379 M	4700	4.91
253	3.0C	757	238	20:54:23	43:13:53	50253	-0:18	1:32	88	6.79	.00	198	59	15	4292 M	1850	4.97
254	10.0C	813	235	20:54:23	43:13:53	50253	-0:2	3:17	88	6.79	.00	380	123	22	12429 M	1763	5.03
255	3.7C	816	243	20:54:23	43:13:53	50253	-0:3	1:56	88	6.79	.00	225	69	18	5220 M	1970	4.90
256	1.0L	786	827	20:54:24	31:29	N6992	-0:20	3:25	NEB			66	544	59	2244	2244	5.71
257	10.0C	784	825	20:54:24	31:29	N6992	-0:3	0:52	NEB			59	696	20	124690	1247	5.40
258	10.0C	803	372	20:54:24	40:27:54	50254	-0:1	1:52	A0	8.60	8.80	51	6	20	160 L	53	8.85
259	1.0L	794	589	20:54:25	36:11:5	70691	0:8	-0:3	A0	7.20	7.50	90	13	61	317 L	1012	8.58
260	3.0L	789	592	20:54:25	36:11:5	70691	0:2	-0:35	A0	7.20	7.50	204	35	139	1338	976	6.62
261	3.0C	737	588	20:54:25	36:11:5	70691	0:5	-0:9	A0	7.20	7.50	74	27	15	960	530	6.34
262	10.0C	794	585	20:54:25	36:11:5	70691	0:5	0:1	A0	7.20	7.50	174	71	18	4173	582	6.23
263	3.7C	796	592	20:54:25	36:11:5	70691	0:6	-0:9	A0	7.20	7.50	90	33	18	1280	530	6.34
264	10.0C	780	832	20:54:39	31:23:53	70698	-0:0	-2:49	A2	8.50	8.80	53	39	20	10280	174	7.55
265	.25L	812	168	20:54:48	44:43:54	50263	-0:6	3:16	06	6.01	.00	53	21	22	523 L	5460	4.74
266	1.0L	820	164	20:54:48	44:43:54	50263	-0:3	2:37	06	6.01	.00	198	98	58	57780L	7578	4.38
267	3.0L	816	166	20:54:48	44:43:54	50263	-0:6	3:27	06	6.01	.00	404	164	129	150520L	11000	3.98
268	3.0C	761	162	20:54:48	44:43:54	50263	-0:19	2:16	06	6.01	.00	313	110	22	104660L	5450	3.79
269	10.0C	817	159	20:54:48	44:43:54	50263	-0:4	3:49	06	6.01	.00	436	352	30	323850L	5966	3.77
270	3.7C	820	166	20:54:48	44:43:54	50263	-0:11	3:45	06	6.01	.00	359	117	29	124090L	5500	3.78
271	10.0C	789	516	20:55:12	37:33:30	70710	0:2	0:20	89	8.50	8.50	62	13	18	401 L	78	8.43
272	3.0L	779	649	20:55:12	35:2:24					8.80	9.40	192	6	138	2087	195	8.38
273	1.0L	798	351	20:55:13	41:4:33	50271:	0:0	-3:39		8.60	8.80	219	45	62	2996 M	3860	5.09
274	3.0L	793	354	20:55:13	41:4:33	50271:	0:5	-5:27		8.60	8.80	388	69	134	6420 M	8000	4.64
275	3.0C	739	350	20:55:13	41:4:33	50271:	0:3	-4:29		8.60	8.80	311	63	18	5677 M	2520	4.64
276	10.0C	795	347	20:55:13	41:4:33	50271:	0:6	-4:52		8.60	8.80	407	139	20	14719 M	2300	4.74
277	3.7C	798	354	20:55:13	41:4:33	50271:	0:4	-3:47		8.60	8.80	340	72	19	6956 M	2340	4.63
278	.25L	790	356	20:55:18	40:58:25	50274/	-0:2	0:28	A0	4.04	.00	60	15	22	419 L	3600	5.20
279	1.0L	793	351	20:55:18	40:58:25	50274/	-0:5	2:28	A0	4.04	.00	219	45	62	2996	3960	5.09
280	3.0L	793	354	20:55:18	40:58:25	50274/	0:0	0:40	A0	4.04	.00	388	69	134	6420	8000	4.64
281	3.0C	739	350	20:55:18	40:58:25	50274/	0:2	1:38	A0	4.04	.00	311	63	18	5677	2520	4.64
282	10.0C	795	347	20:55:18	40:58:25	50274/	0:1	1:15	A0	4.04	.00	407	139	20	14719 L	2300	4.74
283	3.7C	798	354	20:55:18	40:58:25	50274/	-0:0	2:20	A0	4.04	.00	340	72	19	6956	2340	4.63
284	1.0L	790	426	20:55:41	39:28:7	70721	-0:2	-0:11	89	7.50	.00	103	13	63	390 M	720	6.95
285	3.0L	785	428	20:55:41	39:28:7	70721	0:2	-0:29	89	7.50	.00	238	32	136	1550 M	900	6.71
286	3.0C	732	424	20:55:41	39:28:7	70721	-0:3	1:22	89	7.50	.00	114	25	14	1248 M	825	6.16
287	10.0C	788	421	20:55:41	39:28:7	70721	0:1	1:10	89	7.50	.00	234	52	19	1409 M	525	6.35
288	3.7C	791	428	20:55:41	39:28:7	70721	-0:2	0:59	89	7.50	.00	133	28	18	1409 M	575	6.25
289	10.0C	786	391	20:56:2	40:4:42	50288	-0:3	0:56	A0	8.20	7.70	63	19	18	730	127	7.90
290	3.7C	789	398	20:56:2	40:4:42	50288	-0:6	0:45	A0	8.20	7.70	46	6	16	142 L	163	7.62
291	1.0L	758	832	20:56:38	31:27:10	70743	0:3	-3:29	89	7.17	.00	90	10	62	237 L	805	7.14
292	3.0L	753	834	20:56:38	31:27:10	70743	-0:2	-2:55	89	7.17	.00	201	39	126	1582	920	6.88
293	3.0C	703	831	20:56:38	31:27:10	70743	-0:0	-3:55	89	7.17	.00	86	35	17	1407	715	6.01
294	10.0C	760	828	20:56:38	31:27:10	70743	-0:3	-3:13	89	7.17	.00	197	77	20	5537	819	5.88
295	3.7C	761	835	20:56:38	31:27:10	70743	0:1	-2:7	89	7.17	.00	102	43	19	1809	745	5.97
296	.25L	780	318	20:56:39	41:44:43	50303	-0:3	0:11	89	6.03	.00	64	18	22	531	4560	4.94
297	1.0L	784	313	20:56:39	41:44:43	50303	-0:6	0:54	89	6.03	.00	249	53	63	3841 M	5000	4.84
298	3.0L	784	315	20:56:39	41:44:43	50303	-0:6	1:38	89	6.03	.00	400	81	132	7710 M	6160	4.61
299	3.0C	729	312	20:56:39	41:44:43	50303	-0:10	0:14	89	6.03	.00	319	67	15	6157	2720	4.59
300	10.0C	786	309	20:56:39	41:44:43	50303	-0:1	1:2	89	6.03	.00	410	141	21	15099	2270	4.73

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OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAO NO.	A R.A.	A DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	BG	DENSITY VOLUME	CORR. V/E	UV MAG.
301	3.7C	788	316	20:56:39	41:44:43	50303	-0: 3	0:50	89	6.03	.00	343	77	19	7321	2700	4.56
302	10.0C	757	857	20:56:40	30:50:00	NO?						44	8	20	178	70	8.55
303	10.0C	756	853	20:56:50	30:55:18	NO						56	5	20	156	38	9.21
304	3.0L	768	472	20:57:16	38:33:58	NO						191	16	138	5277	330	7.80
305	3.0L	761	588	20:57:24	36:13:59	70765	-0: 2	0:16	89	8.00	7.90	182	13	139	417	285	7.96
306	3.0C	708	584	20:57:24	36:13:59	70765	0: 7	0:57	89	8.00	7.90	60	10	15	315	285	7.09
307	10.0C	765	581	20:57:24	36:13:59	70765	0: 0	-0: 2	89	8.00	7.90	139	29	20	1571	219	7.30
308	3.7C	767	589	20:57:24	36:13:59	70765	0: 2	0:58	89	8.00	7.90	74	14	17	491	285	7.09
309	1.0L	795	183	20:57:25	44:36	N7000	-0:13	-13:10	NEB			62	626	55	2401	2401	5.64
310	10.0C	792	167	20:57:25	44:36	N7000	0: 1	0: 5	NEB			43	1107	27	11222	1122	5.52
311	3.0L	747	805	20:57:28	31:57:19	NO	-0: 4	0: 5				155	9	129	209	181	8.40
312	3.0C	696	802	20:57:28	31:57:19	NO	0: 3	-0:49				41	5	15	123	194	7.43
313	10.0C	753	799	20:57:28	31:57:19	NO	0: 5	-0:12				86	34	20	1377	210	7.35
314	3.7C	755	806	20:57:28	31:57:19	NO	-0: 2	0:56				46	8	18	197	184	7.49
315	1.0L	781	294	20:57:33	42: 7:43	50319	-0: 2	1:23	89	6.51	.00	154	36	61	1601	2100	5.78
316	3.0L	777	296	20:57:33	42: 7:43	50319	-0: 2	2: 2	89	6.51	.00	330	58	128	4316	3200	5.33
317	3.0C	722	293	20:57:33	42: 7:43	50319	-0: 7	0:47	89	6.51	.00	212	49	16	3429	1440	5.25
318	10.0C	779	290	20:57:33	42: 7:43	50319	-0: 5	1:36	89	6.51	.00	375	95	21	9463	1360	5.31
319	3.7C	781	297	20:57:33	42: 7:43	50319	0: 1	1:22	89	6.51	.00	250	54	17	4334	1490	5.21
320	3.0L	779	260	20:57:43	42:52: 7	50325	-0: 2	1:20	88	8.10	7.90	155	10	126	241 L	208	8.31
321	3.0C	724	256	20:57:43	42:52: 7	50325	-0: 9	1:24	88	8.10	7.90	43	6	14	146 L	207	7.38
322	10.0C	781	253	20:57:43	42:52: 7	50325	-0: 8	2: 8	88	8.10	7.90	103	33	22	1428 L	230	7.25
323	3.7C	783	260	20:57:43	42:52: 7	50325	-0: 2	1:55	88	8.10	7.90	52	11	16	304 L	218	7.31
324	3.0L	739	768	20:58: 4	32:49:15	70774?	0:26	-8:52				163	4	133	1077	139	8.75
325	10.0C	757	612	20:58: 7	35:36:59	70775	0: 1	0:14				73	17	20	565	94	8.22
326	3.0L	773	235	20:58:39	43:21:53	50344	-0: 3	1: 7	A2	8.50	8.20	152	4	124	80	116	8.94
327	10.0C	774	228	20:58:39	43:21:53	50344	0: 2	0:48	A2	8.50	8.20	83	25	22	960	202	7.39
328	3.7C	777	235	20:58:39	43:21:53	50344	-0: 5	1:51	A2	8.50	8.20	44	6	17	143	163	7.62
329	10.0C	757	412	20:58:59	39:37:22	70790	0: 5	2:17				50	7	18	188	65	8.63
330	10.0C	757	412	20:59: 3	39:47:16	70791?	0: 1	-7:37	A0	8.10	7.70	50	7	18	188 L	123*	7.93
331	10.0C	757	404	20:59: 3	39:47:16	70791	0: 3	1:11	A0	8.10	7.70	54	7	18	193 L	61	8.70
332	10.0C	744	682	20:59: 4	34:13:11	70793	-0: 1	-0:29	A0	8.50	8.40	48	8	19	207 L	61	8.70
333	3.0L	767	226	20:59:25	43:31:29	50358	0: 0	1:17	A0	8.20	7.40	169	19	124	608 M	345	7.75
334	3.0C	712	223	20:59:25	43:31:29	50358	-0: 8	0:16	A0	8.20	7.40	64	17	14	582 M	367	6.74
335	10.0C	768	220	20:59:25	43:31:29	50358	-0: 1	0:59	A0	8.20	7.40	157	48	20	2807 M	384	6.69
336	3.7C	771	227	20:59:25	43:31:29	50358	-0: 1	0:46	A0	8.20	7.40	81	23	17	869 M	398	6.65
337	.25L	777	106	20:59:26	45:57:31	50359	0: 5	0:19	B3	5.24	.00	98	46	22	18000	11756E	3.91
338	1.0L	785	102	20:59:26	45:57:31	50359	0: 9	-0:23	B3	5.24	.00	347	101	62	96710	15680E	3.59
339	3.0L	781	105	20:59:26	45:57:31	50359	0: 6	-0:56	B3	5.24	.00	435	177	134	187200	14480E	3.68
340	3.0C	725	101	20:59:26	45:57:31	50359	0: 6	-0:33	B3	5.24	.00	379	118	25	131350	7080E	3.51
341	10.0C	781	98	20:59:26	45:57:31	50359	0:12	-0: 7	B3	5.24	.00	436	350	32	347780	5880E	3.71
342	3.7C	784	105	20:59:26	45:57:31	50359	0:13	-0:16	B3	5.24	.00	404	136	28	160270	7180E	3.49
343	1.0L	719	940	20:59:36	29:25:57	89380?	-0:11	-10:11	88	7.80	7.41	96	40	59	1120	1570E	6.10
344	3.0L	713	940	20:59:36	29:25:57	89380?	-0:11	-7:20	88	7.80	7.41	214	71	124	3566 M	2300E	5.69
345	3.0C	664	938	20:59:36	29:25:57	89380?	-0:11	-9:20	88	7.80	7.41	95	70	17	2819 M	1244E	5.41
346	10.0C	721	935	20:59:36	29:25:57	89380?	-0:13	-8:29	88	7.80	7.41	217	102	20	8367 M	1094E	5.55
347	3.7C	722	941	20:59:36	29:25:57	89380?	-0:10	-7:55	88	7.80	7.41	103	60	15	2516	856E	5.81
348	3.0L	722	801	20:59:52	32: 2:10	70806	-0: 2	-1:16	A0	8.70	8.60	156	4	128	80	116	8.94
349	10.0C	728	795	20:59:52	32: 2:10	70806	0: 8	-1:19	A0	8.70	8.60	83	32	18	1258	220	7.30
350	3.7C	730	802	20:59:52	32: 2:10	70806	0: 1	-1:29	A0	8.70	8.60	51	8	18	219	193	7.44

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CYGNUS, R.A. 21:24 DEC. +37:30 (6 FRAMES)

OBJECT NO.	EXP. FILTER	X	Y	R.A.	DEC.	SAO NO.	Δ R.A.	Δ DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	BO	DENSITY VOLUME	CORR. V/E	UV MAG.
351	3.0L	737	559	21: 0: 2	36:46:18	70810	-0: 4	0:42	A2	8.40	8.20	157	3	137	60	99	9.12
352	10.0C	741	553	21: 0: 2	36:46:18	70810	-0: 3	0:36	A2	8.40	8.20	71	12	19	424	88	8.30
353	10.0C	717	835	21: 0:38	31:15:56	70822	0: 7	-2:50	A0	8.50	8.70	56	19	20	520	115	8.00
354	10.0C	759	199	21: 0:39	43:56:56	50382	-0: 1	0: 5	A	8.70	8.80	73	20	22	719	149	7.72
355	3.7C	762	206	21: 0:39	43:56:56	50382	-0: 1	0: 9	A	8.70	8.80	42	7	16	170	170	7.58
356	3.0L	743	347	21: 0:44	41: 6:18	NO*	-0: 2	-0:48				168	6	130	141	158	8.61
357	3.0C	689	343	21: 0:44	41: 6:18	NO*	0: 0	0:54				42	5	13	120	195	7.43
358	10.0C	745	340	21: 0:44	41: 6:18	NO*	0: 2	-0:32				99	21	19	881	160	7.84
359	3.7C	748	347	21: 0:44	41: 6:18	NO*	0: 0	0:25				52	8	15	228	195	7.43
360	2.5L	763	120	21: 1: 2	45:39:1	50390	-0:10	1: 6	88	6.23	.00	50	15	21	355	5960	4.65
361	1.0L	771	115	21: 1: 2	45:39:1	50390	-0: 6	1:39	88	6.23	.00	186	97	58	52070H	6977	4.47
362	3.0L	767	117	21: 1: 2	45:39:1	50390	-0: 2	2:14	88	6.23	.00	397	169	130	130000H	10650	4.01
363	3.0C	711	114	21: 1: 2	45:39:1	50390	-0: 9	1:29	88	6.23	.00	281	109	21	91130H	4550	3.99
364	10.0C	767	111	21: 1: 2	45:39:1	50390	-0: 3	2: 1	88	6.23	.00	425	341	28	303330H	5355	3.81
365	3.7C	770	118	21: 1: 2	45:39:1	50390	-0: 2	1:49	88	6.23	.00	335	123	22	116670H	5090	3.87
366	10.0C	729	564	21: 1:12	36:32:43	70835	-0: 1	1: 3	A0	8.30	8.30	65	9	19	300 L	67	8.59
367	10.0C	709	858	21: 1:15	30:45:28	70837	0: 2	0:17	A2	8.50	7.90	136	20	64	818 H	1150	8.44
368	1.0L	732	498	21: 1:20	37:57:14	70837	0: 4	0:41	A2	8.50	7.90	289	35	140	2189 H	1460	6.18
369	3.0L	727	500	21: 1:20	37:57:14	70837	0:10	1:54	A2	8.50	7.90	135	29	17	1506 H	720	6.00
370	3.0C	674	497	21: 1:20	37:57:14	70837	0: 1	0:52	A2	8.50	7.90	286	72	19	5448 H	742	5.97
371	10.0C	731	494	21: 1:20	37:57:14	70837	0: 4	0:29	A2	8.50	7.90	163	35	17	2009 H	740	5.97
372	3.7C	733	501	21: 1:33	33:31:14	70844	-0: 2	-0:32	A0	8.00	7.80	91	6	64	835 H	475	7.41
373	1.0L	717	720	21: 1:33	33:31:14	70844	-0: 4	-0:10	A0	8.00	7.80	200	22	135	835 H	475	7.41
374	3.0L	712	722	21: 1:33	33:31:14	70844	-0: 4	-0:10	A0	8.00	7.80	76	17	14	674 H	405	6.63
375	3.0C	660	720	21: 1:33	33:31:14	70844	0: 5	-0:30	A0	8.00	7.80	169	40	19	2696 H	481	6.44
376	10.0C	717	717	21: 1:33	33:31:14	70844	-0: 0	-1:10	A0	8.00	7.80	169	40	19	2696 H	481	6.44
377	3.7C	719	723	21: 1:33	33:31:14	70844	-0: 0	1: 1	A0	8.00	7.80	155	26	17	1089 H	465	6.48
378	3.0L	756	143	21: 1:51	45:10:17	50404	-0: 2	-0: 7	A0	8.00	7.90	52	17	14	491	340	6.82
379	3.0C	700	139	21: 1:51	45:10:17	50404	-0: 7	0:22	A0	8.00	7.90	128	54	24	2730 H	368	6.73
380	10.0C	756	136	21: 1:51	45:10:17	50404	-0: 2	1: 1	A0	8.00	7.90	64	24	17	779 H	370	6.73
381	3.7C	759	143	21: 1:51	45:10:17	50404	-0: 1	0:47	A0	8.00	7.90	101	33	56	992 H	2384E	5.66
382	1.0L	764	90	21: 2: 8	46: 7:52	50411	-0: 0	2: 1	88*	8.50	7.70	240	67	124	3750 H	2500E	5.59
383	3.0L	760	92	21: 2: 8	46: 7:52	50411	0: 5	2:33	88*	8.50	7.70	119	58	19	2935 H	1200E	5.37
384	3.0C	704	89	21: 2: 8	46: 7:52	50411	-0: 3	1:54	88*	8.50	7.70	302	133	32	10695 H	1603E	5.13
385	10.0C	761	86	21: 2: 8	46: 7:52	50411	0: 2	1:13	88*	8.50	7.70	141	64	22	3711 H	1350E	5.32
386	3.7C	764	93	21: 2: 8	46: 7:52	50411	-0: 4	2:17	88*	8.50	7.70	66	10	18	341	84	8.35
387	10.0C	717	593	21: 2:19	35:56:58	70851	0: 1	0:59	A0	8.40	8.20	54	10	18	269	65	8.63
388	10.0C	725	553	21: 2:49	40:48:29	50426/	-0: 0	1:25	A	8.40	8.20	79	17	15	665	130	7.87
389	3.0L	722	436	21: 2:55	39: 9:20	70874?	-0:33	6:10	A2	8.60	8.70	199	13	141	534	338	7.78
390	10.0C	720	386	21: 3: 6	40: 8:40	50426/	0: 6	0:49	A0	8.60	8.70	79	17	15	665	130	7.87
391	3.7C	723	393	21: 3: 6	40: 8:40	50426/	0: 3	0:27	A0	8.60	8.70	48	7	15	665	130	7.87
392	10.0C	720	386	21: 3:12	40:12:58	50428/	0: 1	-3:29		8.70	9.20	79	17	15	665	130	7.87
393	3.7C	723	393	21: 3:12	40:12:58	50428/	-0: 2	-3:51		8.70	9.20	48	7	15	665	130	7.87
394	10.0C	699	727	21: 3:15	33:17:40	70886	0: 3	0: 6	A0	8.00	8.00	84	21	20	825	128	7.88
395	3.7C	701	734	21: 3:15	33:17:40	70886	0: 3	-0:16	A0	8.00	8.00	49	8	139	199 L	133	7.84
396	3.0L	697	666	21: 3:25	34:36:41	70888	-0: 3	0:55	A0	7.90	8.00	164	4	17	97 L	108	9.04
397	10.0C	702	660	21: 3:25	34:36:41	70888	0: 4	0: 5	A0	7.90	8.00	81	17	20	6350	102	8.13
398	3.7C	704	667	21: 3:25	34:36:41	70888	-0: 2	0:60	A0	7.90	8.00	46	5	16	125 L	121	7.95
399	3.0L	691	833	21: 3:37	31:21:54	70892	0: 0	-1:13		8.40	8.70	167	15	127	470	269	7.95
400	3.0C	631	830	21: 3:37	31:21:54	70892	0: 3	-1:20		8.40	8.70	50	13	16	340	266	7.01



CYGNUS, R.A. 21:24 DEC. +37:30 (6 FRAMES)																	
OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAO NO.	A R.A.	A DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	BG	DENSITY VOLUME	CORR. V/E	UV MAG.
401	10.0C	687	827	21: 3:37	31:21:54	70892	0: 5	-1:54		8.40	8.70	119	40	20	2086	384	6.69
402	3.7C	689	834	21: 3:37	31:21:54	70892	0: 3	-0:59		8.40	8.70	62	19	17	595	308	6.93
403	10.0C	683	868	21: 3:38	30:35:31	70894	0: 5	-2:50		8.50	8.80	62	16	20	528	126	7.90
404	10.0C	711	427	21: 3:54	39:18:49	NO						49	6	18	1587	46	9.00
405	10.0C	700	579	21: 4: 5	36:13:19	70907	0: 3	0: 1	A0	8.80	9.30	50	7	20	172	L	8.96
406	3.0C	695	563	21: 4:27	36:41:53	NO	-0: 7	-1:28				167	8	141	108	188	8.42
407	10.0C	697	554	21: 4:27	36:41:53	NO	0: 7	1:29				66	10	20	340	75	8.47
408	1.0C	690	658	21: 4:42	34:42:27	70921	-0: 4	0:37	B9	8.30	8.50	94	5	66	116	456	7.45
409	3.0C	685	660	21: 4:42	34:42:27	70921	-0: 6	0:33	B9	8.30	8.50	201	13	141	485	317	7.85
410	3.0C	633	658	21: 4:42	34:42:27	70921	0: 2	0:37	B9	8.30	8.50	63	12	15	401	298	8.96
411	10.0C	690	654	21: 4:42	34:42:27	70921	0: 1	1: 7	B9	8.30	8.50	147	32	20	18600	250	7.16
412	3.7C	692	661	21: 4:42	34:42:27	70921	-0: 5	0:45	B9	8.30	8.50	79	16	16	589	300	6.96
413	10.0C	683	650	21: 4:44	33:55:51	70925?	0:27	4:40	A2	8.00	.00	55	7	19	207	65	8.63
414	1.0C	667	881	21: 5: 1	30:23:39	70931	-0: 1	-2:45	B8	7.51	.00	134	49	60	2021	M	2998
415	3.0C	661	883	21: 5: 1	30:23:39	70931	-0: 0	-2:35	B8	7.51	.00	293	71	126	4949	M	5300
416	3.0C	611	881	21: 5: 1	30:23:39	70931	0: 4	-3:50	B8	7.51	.00	160	59	19	3674	M	1630
417	10.0C	668	878	21: 5: 1	30:23:39	70931	0: 1	-4:18	B8	7.51	.00	343	108	19	11624	M	1918
418	3.7C	670	885	21: 5: 1	30:23:39	70931	-0: 2	-3:22	B8	7.51	.00	189	69	19	4633	M	1700
419	10.0C	683	690	21: 5: 9	33:59:36	70934?	0: 1	0:56		9.00	9.50	55	7	19	207	65	8.63
420	10.0C	695	485	21: 5:10	38: 6:47	70935	0: 3	0:33	A0	8.50	7.80	85	17	18	687	124	7.92
421	3.7C	698	492	21: 5:10	38: 6:47	70935	-0: 1	0:18	A0	8.50	7.80	47	14	18	106	L	7.76
422	3.0C	687	558	21: 5:12	36:44:52	70936	-0: 1	1:15	A0	8.00	8.00	196	15	140	507	316	7.85
423	3.0C	635	555	21: 5:12	36:44:52	70936	0: 2	1:31	A0	8.00	8.00	59	9	14	298	266	7.09
424	10.0C	691	552	21: 5:12	36:44:52	70936	-0: 0	0:38	A0	8.00	8.00	141	32	20	1658	213	7.33
425	3.7C	693	559	21: 5:12	36:44:52	70936	0: 2	1:25	A0	8.00	8.00	74	15	17	512	273	7.06
426	1.0C	675	780	21: 5:15	32:18: 0	70940	-0: 2	-0: 3	B9	7.50	7.90	94	7	64	179	L	7.30
427	3.0C	669	782	21: 5:15	32:18: 0	70940	0: 0	0: 6	B9	7.50	7.90	208	26	132	1129	620	7.12
428	3.0C	619	780	21: 5:15	32:18: 0	70940	0: 1	0:14	B9	7.50	7.90	89	22	17	898	495	6.41
429	10.0C	675	777	21: 5:15	32:18: 0	70940	0: 2	-0:23	B9	7.50	7.90	203	47	20	3546	585	6.27
430	3.7C	677	784	21: 5:15	32:18: 0	70940	0: 1	0:28	B9	7.50	7.90	110	25	19	1224	190	6.42
431	10.0C	667	853	21: 5:23	30:50:34	70944	0: 2	-1:41		9.00	9.00	67	23	15	765	175	7.55
432	1.0C	723	175	21: 5:26	44:28:18	50468	-0: 1	-1:23	B9	7.70	7.10	94	15	56	438	M	6.85
433	3.0C	719	177	21: 5:26	44:28:18	50468	-0: 5	-0:57	B9	7.70	7.10	212	40	122	1936	M	6.46
434	3.0C	663	174	21: 5:26	44:28:18	50468	-0: 0	-0:22	B9	7.70	7.10	110	35	14	1702	M	6.13
435	10.0C	720	171	21: 5:26	44:28:18	50468	-0: 2	-0:33	B9	7.70	7.10	269	67	21	5656	M	6.13
436	3.7C	723	178	21: 5:26	44:28:18	50468	-0: 1	0:15	B9	7.70	7.10	137	38	17	2119	M	5.90
437	3.0C	728	112	21: 5:32	45:43:37	50473	0: 0	0:35	A0	8.70	8.40	144	6	119	137	151	8.66
438	10.0C	728	107	21: 5:32	45:43:37	50473	-0: 1	-0:38	A0	8.70	8.40	92	27	20	1446	M	7.20
439	3.7C	731	114	21: 5:32	45:43:37	50473	-0: 7	-0:38	A0	8.70	8.40	48	12	19	284	248	7.17
440	.25L	665	738	21: 5:51	33:11:40	70953	-0: 2	1:25	B0	7.50	7.60	71	14	24	474	3750	5.15
441	1.0C	673	734	21: 5:51	33:11:40	70953	-0: 0	0:56	B0	7.50	7.60	259	43	64	3091	4050	5.07
442	3.0C	667	736	21: 5:51	33:11:40	70953	0: 3	1: 3	B0	7.50	7.60	385	67	137	5960	5750	4.69
443	3.0C	616	734	21: 5:51	33:11:40	70953	0: 8	1:15	B0	7.50	7.60	267	54	17	4562	1950	4.92
444	10.0C	673	731	21: 5:51	33:11:40	70953	0: 2	-0:25	B0	7.50	7.60	395	117	19	12722	2110	4.83
445	3.7C	675	737	21: 5:51	33:11:40	70953	-0: 4	1:32	B0	7.50	7.60	303	63	19	5682	2040	4.87
446	10.0C	717	156	21: 5:59	44:45:41	50480	-0: 2	-0:52	A0	7.20	7.20	66	17	21	552	L	8.12
447	10.0C	677	632	21: 6:12	35: 7:48	70962	-0: 3	1:18	A0	8.70	8.50	66	12	25	408	88	8.32
448	.25L	641	905	21: 6:31	30: 0: 9	70968	-0: 1	-3:35	A0	5.70	.00	60	21	25	537	4520	4.95
449	1.0C	649	900	21: 6:31	30: 0: 9	70968	0: 1	-2:53	A0	5.70	.00	223	70	61	4640	M	4.61
450	3.0C	643	902	21: 6:31	30: 0: 9	70968	0: 1	-2:47	A0	5.70	.00	398	110	126	10714	M	4.47

PAGE, CARRUTHERS, AND HECKATHORN

CYGNUS, R.A. 21:24 DEC. +37:30 (6 FRAMES)

OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAO NO.	A R.A.	A DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	BG	DENSITY VOLUME	CORR. V/E	UV MAG.
451	3.0C	594	900	21: 6:31	30: 0: 9	70968	0: 2	-3:47	A0	5.70	.00	317	93	22	9138 M	4400	4.03
452	10.0C	651	897	21: 6:31	30: 0: 9	70968	-0: 2	-2:59	A0	5.70	.00	425	199	19	24585 M	4255	4.06
453	3.7C	656	893	21: 6:31	30: 0: 9	70968?	-0: 19	9:15	A0	5.70	.00	58	8	24	2017L		
454	3.7C	652	904	21: 6:31	30: 0: 9	70968	-0: 5	-3:20	A0	5.70	.00	355	111	20	11767 M	5000*	3.09
455	3.0C	691	330	21: 6:33	41:22:59	50488	0: 4	-0:22	B9	8.30	8.00	167	10	130	285	222	8.24
456	3.0C	637	327	21: 6:33	41:22:59	50488	0:10	1:25	B9	8.30	8.00	50	6	15	160	207	7.36
457	10.0C	693	354	21: 6:33	41:22:59	50488	0: 4	-0:16	B9	8.30	8.00	108	22	18	1033	162	7.63
458	3.7C	696	331	21: 6:33	41:22:59	50488	0: 2	-0:10	B9	8.30	8.00	60	9	15	284	209	7.35
459	10.0C	666	719	21: 6:41	33:25: 7	70971	-0: 3	0:29	A0	7.20	7.90	47	4	19	102 L	70	8.55
460	1.0L	705	217	21: 6:49	43:37:32	50491	-0: 3	-1:12	A0	8.20	7.60	85	6	58	137	490	7.37
461	3.0L	701	219	21: 6:49	43:37:32	50491	-0: 1	-0:53	A0	8.20	7.60	188	22	127	822 M	445	7.48
462	3.0C	646	216	21: 6:49	43:37:32	50491	-0: 1	-0:13	A0	8.20	7.60	82	19	15	757 M	437	6.95
463	10.0C	702	213	21: 6:49	43:37:32	50491	-0: 2	-0:21	A0	8.20	7.60	196	38	24	2812 M	366	6.74
464	3.7C	705	220	21: 6:49	43:37:32	50491	-0: 2	-0:45	A0	8.20	7.60	103	23	18	1023 M	430	6.56
465	3.0L	681	395	21: 7: 6	40: 3:18	NO*	-0: 2	-0:19				167	6	139	142	162	8.58
466	10.0C	683	399	21: 7: 6	40: 3:18	NO*	0: 2	0:24				86	19	107	717	107	8.08
467	3.7C	686	396	21: 7: 6	40: 3:18	NO*	-0: 1	-0: 5				48	6	18	143	161	7.84
468	10.0C	676	517	21: 7:18	37:34:53	70980?	-0:14	-7:36	A2	8.80	8.60	55	11	20	285 L	60	8.71
469	10.0C	676	517	21: 7:19	37:20:29	70981?	-0:15	6:48		9.30	9.90	55	11	20	285	60	8.71
470	10.0C	714	85	21: 7:27	46: 7: 9	50503	0: 6	1: 7		8.70	9.00	60	26	24	696		
471	10.0C	711	82	21: 7:27	46: 7: 9	50503?	0:28	3:25				72	34	24	1136?	297*	6.97
472	10.0C	681	382	21: 7:30	40:12:18	NO						55	6	19	183	58	8.75
473	10.0C	671	482	21: 7:45	38: 8:41	70990?	0: 3	1: 3		9.10	9.30	48	5	19	124	490	6.42
474	3.0L	684	288	21: 7:46	42:13:45	50509	0: 1	0:29	A0	7.90	7.70	155	4	128	96 L	130	8.82
475	3.0C	630	285	21: 7:46	42:13:45	50509	0: 6	0:15	A0	7.90	7.70	110	6	16	157 L	205	7.37
476	10.0C	686	282	21: 7:46	42:13:45	50509	-0: 1	-0:55	A0	7.90	7.70	110	24	21	1078	175	7.95
477	3.7C	689	289	21: 7:46	42:13:45	50510	-0: 2	-0: 7	A0	7.90	7.70	61	10	17	293	214	7.33
478	1.0L	711	120	21: 7:47	45:32: 4	50510	-0: 8	-1:46	B5	7.40	7.60	91	24	57	6140	1000	6.59
479	3.0L	707	122	21: 7:47	45:32: 4	50510	-0: 3	-0:14	B5	7.40	7.60	217	51	126	24600	1450	6.19
480	3.0C	651	119	21: 7:47	45:32: 4	50510	-0: 9	-0:38	B5	7.40	7.60	107	40	17	18970	900	5.76
481	10.0C	707	116	21: 7:47	45:32: 4	50510	-0: 4	-0:57	B5	7.40	7.60	264	89	24	73080	933	5.72
482	3.7C	710	123	21: 7:47	45:32: 4	50510	-0: 3	-0: 5	B5	7.40	7.60	135	40	20	25540	900	5.76
483	10.0C	665	566	21: 7:50	36:27:26	NO						53	5	20	137	61	8.70
484	1.0L	662	627	21: 7:51	35:17:15	70994	-0: 5	0:58		8.70	8.70	137	17	67	690 M	1000	6.99
485	3.0L	657	629	21: 7:51	35:17:15	70994	-0: 5	1: 5		8.70	8.70	284	34	143	2013 M	1300	6.31
486	3.0C	605	627	21: 7:51	35:17:15	70994	0: 1	1:31		8.70	8.70	131	25	17	1239 M	610	6.18
487	10.0C	661	624	21: 7:51	35:17:15	70994	-0: 1	0:48		8.70	8.70	267	59	20	4594 M	845	6.12
488	3.7C	663	631	21: 7:51	35:17:15	70994	-0: 0	0:15		8.70	8.70	137	30	18	1562 M	600	6.20
489	1.0L	657	682	21: 7:58	34:12: 8	70998	-0: 7	0:29		8.70	8.70	104	8	68	227	575	7.20
490	3.0L	651	684	21: 7:58	34:12: 8	70998	-0: 2	0:30		8.70	8.70	223	22	142	97204	728*	6.94
491	3.0L	649	691	21: 7:58	34:12: 8	70998	0: 7	-7:11		8.70	8.70	176	7	144	1710		
492	3.0C	600	681	21: 7:58	34:12: 8	70998	0: 1	-2:14		8.70	8.70	86	16	17	624	597*	6.21
493	3.0C	598	688	21: 7:58	34:12: 8	70998	0:11	-5:27		8.70	8.70	50	7	15	196		
494	10.0C	656	678	21: 7:58	34:12: 8	70998	-0: 0	1:34		8.70	8.70	186	46	20	28550	600*	6.20
495	10.0C	654	685	21: 7:58	34:12: 8	70998	-0:10	-7:22		8.70	8.70	108	38	20	15580	588*	6.23
496	3.7C	658	685	21: 7:58	34:12: 8	70998	-0: 0	1: 2		8.70	8.70	97	19	18	307		
497	3.7C	656	692	21: 7:58	34:12: 8	70998	-0:10	-6:39		8.70	8.70	60	10	18	307		
498	10.0C	655	697	21: 7:59	33:49:22	70999	-0: 1	1:41	A0	8.90	9.30	73	16	20	566	105	8.10
499	3.0L	665	493	21: 8: 0	38: 2:41	71000	0: 0	0:24	A2	8.60	8.20	178	4	143	90	136	8.77
500	10.0C	671	482	21: 8: 0	38: 2:41	71000?	-0:13	7: 4	A2	8.60	8.20	48	5	19	124		

CYGNUS, R.A. 21:24 DEC. +37:30 (6 FRAMES)

OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAO NO.	A R.A.	A DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	BG	DENSITY VOLUME	CORR. V/E	UV MAG.
501	10.0C	668	487	21: 8: 0	38: 2:41	71000	0: 4	0:34	A2	8.60	8.20	85	19	19	721	147*	7.74
502	3.0C	649	691	21: 8: 7	34: 3:31	71005/	-0: 2	1:27	A0	8.90	8.60	176	7	144	1710	180	8.46
503	3.0C	598	688	21: 8: 7	34: 3:31	71005/	0: 2	3:11	A0	8.90	8.60	50	7	15	196	228	7.26
504	10.0C	654	685	21: 8: 7	34: 3:31	71005/	0: 1	1:16	A0	8.90	8.60	108	38	20	15580H	201	7.39
505	3.7C	656	692	21: 8: 7	34: 3:31	71005/	0: 1	1:59	A0	8.90	8.60	10	18	10	307	216	7.32
506	.25L	697	136	21: 8:10	45:17:53	50521	-0: 4	-0:51	B5	6.52	.00	61	25	20	724	6856	4.49
507	1.0L	705	132	21: 8:10	45:17:53	50521	-0: 1	-1:30	B5	6.52	.00	247	89	60	6088H	1000	4.08
508	3.0L	701	134	21: 8:10	45:17:53	50521	-0: 4	-1:10	B5	6.52	.00	417	151	138	13310H	12000	3.88
509	3.0C	645	131	21: 8:10	45:17:53	50521	-0: 1	-0:23	B5	6.52	.00	350	97	26	93420H	4600	3.98
510	10.0C	701	128	21: 8:10	45:17:53	50521	0: 3	-0:39	B5	6.52	.00	432	219	24	256320	4222	4.07
511	3.7C	705	135	21: 8:10	45:17:53	50521	-0: 3	-0:39	B5	6.52	.00	380	107	297	115740H	5000	3.89
512	10.0C	690	205	21: 8:14	43:47: 7	50525/	0: 6	-1:50	A0	8.10	8.00	76	16	24	569 L	95	8.21
513	3.0L	642	738	21: 8:20	33: 8: 6	NO	-0: 2	0: 5				161	5	134	113	143	8.72
514	10.0C	648	733	21: 8:20	33: 8: 6	NO	0: 3	-0: 5				74	19	19	665?	122	7.94
515	10.0C	690	205	21: 8:23	43:47:35	50529/	-0: 4	-2:28	A0	8.50	.00	76	16	24	569	95	8.21
516	10.0C	626	924	21: 8:30	29:28:55	89506?	0: 3	-5:38	A2	8.80	8.92	50	13	21	330	127	7.90
517	10.0C	671	375	21: 8:32	40:19:34	50532	0: 6	0:51	B9	8.50	9.10	70	11	20	378 L	97	8.19
518	3.0L	658	509	21: 8:39	37:42:39	71017	0: 0	0:13	A0	8.50	7.90	176	7	139	195	197	8.37
519	3.0C	605	513	21: 8:39	37:42:39	71017?	0: 6	-5:31	A0	8.50	7.90	37	3	15	65 L		
520	3.0C	605	506	21: 8:39	37:42:39	71017	0: 8	-2: 2	A0	8.50	7.90	49	6	15	184	280*	7.03
521	10.0C	661	503	21: 8:39	37:42:39	71017	0: 5	1:13	A0	8.50	7.90	109	24	20	1101	155	7.68
522	3.7C	664	510	21: 8:39	37:42:39	71017	0: 0	0:42	A0	8.50	7.90	60	10	16	305	214	7.33
523	.25L	658	460	21: 8:41	38:45:23	71018	0: 2	0:58	B3	7.40	7.40	62	10	24	276	3000	5.40
524	1.0L	666	456	21: 8:41	38:45:23	71018	-0: 3	-0:43	B3	7.40	7.40	191	29	67	1894	2512	5.59
525	3.0L	661	458	21: 8:41	38:45:23	71018	0: 1	0:38	B3	7.40	7.40	356	64	137	4492	3600	5.20
526	3.0C	608	455	21: 8:41	38:45:23	71018	0: 7	2:31	B3	7.40	7.40	209	43	16	3042	1140	5.50
527	10.0C	664	452	21: 8:41	38:45:23	71018	0: 2	0:22	B3	7.40	7.40	385	101	19	92310	1380	5.29
528	3.7C	667	459	21: 8:41	38:45:23	71018	-0: 2	-0: 9	B3	7.40	7.40	234	51	17	37930	1292	5.36
529	10.0C	661	461	21: 8:50	38:45:23	71024	0: 6	1:56	A0	8.70	8.70	45	4	19	101 L	37	9.24
530	10.0C	661	461	21: 8:50	38:45:23	71030	0: 0	0:41	B9	8.60	8.60	76	27	19	9220	172	7.56
531	3.7C	663	468	21: 8:59	38:45:23	71030	0: 3	0:25	B9	8.60	8.60	41	4	16	930L	129	7.88
532	.25L	645	591	21: 9: 3	36: 5:38	71032	0: 4	1:12	B1	6.40	.00	112	21	26	1002	6000	4.84
533	1.0L	653	587	21: 9: 3	36: 5:38	71032	0: 0	-0:28	B1	6.40	.00	309	52	68	4203	6100	4.62
534	3.0L	648	589	21: 9: 3	36: 5:38	71032	0: 1	0:51	B1	6.40	.00	403	99	143	7676 L	9500	4.26
535	3.0C	596	586	21: 9: 3	36: 5:38	71032	0: 6	2:43	B1	6.40	.00	318	83	18	6968 L	3240	4.36
536	10.0C	652	583	21: 9: 3	36: 5:38	71032	0: 3	0:43	B1	6.40	.00	409	180	20	18711 L	2910	4.48
537	3.7C	655	590	21: 9: 3	36: 5:38	71032	-0: 2	0:12	B1	6.40	.00	331	94	21	8286 L	3150	4.39
538	10.0C	644	682	21: 9:10	34: 7:47	NO						57	10	20	279?	81	8.39
539	.25L	659	351	21: 9:27	40:58:46	50546	0: 7	-0:31	B5	7.30	.00	61	10	23	286	3000	5.40
540	1.0L	667	347	21: 9:27	40:58:46	50546	0: 3	-0:59	B5	7.30	.00	191	32	63	1799	2300	5.89
541	3.0L	663	349	21: 9:27	40:58:46	50546	0: 2	-0:50	B5	7.30	.00	355	58	135	4259	3300	5.29
542	3.0C	608	346	21: 9:27	40:58:46	50546	0:16	1: 4	B5	7.30	.00	210	43	15	2972	1230	5.42
543	10.0C	665	343	21: 9:27	40:58:46	50546	0: 3	0: 9	B5	7.30	.00	361	85	19	8447	1330	5.33
544	3.7C	667	350	21: 9:27	40:58:46	50546	0: 7	-0:27	B5	7.30	.00	237	50	19	3617	1230	5.42
545	10.0C	623	854	21: 9:39	30:45:34	71047	0: 3	-0: 1	B5	9.00	8.80	63	18	19	578	141	7.78
546	.25L	605	928	21: 9:40	29:30:22	89520	0: 3	-2:44	B5	6.77	.00	56	18	25	443	4876	4.87
547	1.0L	613	924	21: 9:40	29:30:22	89520	-0: 1	-4:26	B5	6.77	.00	201	73	61	4415 M	3788	4.68
548	3.0L	607	926	21: 9:40	29:30:22	89520	-0: 1	-4:26	B5	6.77	.00	390	111	124	11012 M	6980	4.47
549	3.0C	558	924	21: 9:40	29:30:22	89520	0: 1	-3:50	B5	6.77	.00	263	95	22	7792 M	3750	4.20
550	10.0C	615	921	21: 9:40	29:30:22	89520	-0: 3	-4:16	B5	6.77	.00	418	177	21	22341	3500	4.28

PAGE, CARRUTHERS, AND HECKATHORN

CYGNUS. R.A. 21:24 DEC. +37:30 (6 FRAMES)

OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAD NO.	A R.A.	A DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	BG	DENSITY VOLUME	CORR. V/E	UV MAG.
551	3.7C	616	928	21: 9:40	29:30:22	89520	-0: 1	-4:47	85	6.77	.00	315	102	24	9596 M	3900	4.16
552	3.0L	604	908	21: 9:47	29:47:36	89524?	0:21	0: 7	A0	9.00	9.19	158	11	123	308 M	220	8.25
553	.25L	653	371	21: 9:59	40:34: 5	50556	0: 6	-0:11	88	7.70	7.80	52	4	23	107	2000	5.84
554	1.0L	660	367	21: 9:59	40:34: 5	50556	0: 9	-0:43	88	7.70	7.80	148	25	64	1128 M	1460	6.18
555	3.0L	656	369	21: 9:59	40:34: 5	50556	0: 7	-0:35	88	7.70	7.80	310	43	138	2826 M	1900	5.89
556	3.0C	602	366	21: 9:59	40:34: 5	50556	0:16	1:25	88	7.70	7.80	163	32	15	1808 M	825	5.85
557	10.0C	859	363	21: 9:59	40:34: 5	50556	0: 3	0:33	88	7.70	7.80	298	65	20	5596 M	860	5.81
558	3.7C	681	370	21: 9:59	40:34: 5	50556	0: 7	-0: 4	88	7.70	7.80	183	38	17	2324 M	835	5.84
559	3.0L	684	133	21:10:14	45:17:11	50560	-0: 7	-0:32	88	8.90	8.90	158	4	132	970	132	8.80
560	3.0C	657	131	21:10:14	45:17:11	50560	0: 3	-0:57	88	8.90	8.90	51	13	16	3500	307	6.93
561	10.0C	684	128	21:10:14	45:17:11	50560	-0: 7	-0:59	88	8.90	8.90	119	73	26	29150	274	7.06
562	3.7C	688	135	21:10:14	45:17:11	50560	0: 1	-1:29	88	8.90	8.90	60	17	21	4790	320	6.89
563	1.0L	688	120	21:10:18	45:29:50	50561	-0: 4	-0:45	88	7.90	7.70	83	10	56	2400	630	7.10
564	3.0L	685	122	21:10:18	45:29:50	50561	-0: 6	-0:50	88	7.90	7.70	192	29	135	10400	575	7.20
565	3.0C	628	120	21:10:18	45:29:50	50561	0: 3	0: 0	88	7.90	7.70	87	31	23	10930	575	6.25
566	10.0C	685	117	21:10:18	45:29:50	50561	-0: 7	-1:17	88	7.90	7.70	210	89	25	55490	570	6.26
567	3.7C	687	124	21:10:18	45:29:50	50561	0: 2	-0:32	88	7.90	7.70	97	32	27	12930	515	6.37
568	3.0L	615	803	21:10:25	31:49:26	71081	-0: 4	1:33	89	8.20	8.20	163	8	130	210 L	190	8.41
569	3.0C	584	801	21:10:25	31:49:26	71081	0: 5	2:12	89	8.20	8.20	47	7	16	183 L	222	7.29
570	10.0C	621	798	21:10:25	31:49:26	71081	-0: 1	0:28	89	8.20	8.20	101	28	19	1277	184	7.49
571	3.7C	623	805	21:10:25	31:49:26	71081	-0: 3	1:11	89	8.20	8.20	55	11	16	317 L	218	7.31
572	10.0C	649	433	21:10:30	35: 8:27	71084	0: 3	0: 2	89	8.40	8.40	61	12	18	368 L	73	8.50
573	1.0L	647	474	21:10:31	38:21:36	71085	0: 2	0: 8	89	7.70	7.10	171	25	65	1257 M	1600	6.08
574	3.0L	642	476	21:10:31	38:21:36	71085	0: 5	0: 8	89	7.70	7.10	317	50	137	2845 M	1870	5.91
575	3.0C	589	474	21:10:31	38:21:36	71085	0:12	2: 9	89	7.70	7.10	177	42	16	2402 M	1070	5.57
576	10.0C	646	471	21:10:31	38:21:36	71085	0: 1	0:10	89	7.70	7.10	335	109	20	8842 M	1270	5.38
577	3.7C	648	478	21:10:31	38:21:36	71085	0: 3	-0:28	89	7.70	7.10	204	49	19	3018 M	1050	5.39
578	10.0C	673	177	21:10:38	44:19:31	50567	-0: 2	-2: 2	8	7.60	7.70	96	23	24	948 L	129	7.88
579	3.7C	676	184	21:10:38	44:19:31	50567	-0: 2	-1:16	8	7.60	7.70	54	9	18	243 L	141	7.78
580	1.0L	685	116	21:10:49	45:35:19	50573	-0: 4	-1:56	88	8.30	8.50	81	7	56	1580	522	7.30
581	3.0L	681	118	21:10:49	45:35:19	50573	-0: 6	-1:41	88	8.30	8.50	183	39	125	14520H	765	6.89
582	3.0C	625	115	21:10:49	45:35:19	50573	-0: 4	-0:45	88	8.30	8.50	71	26	17	9020H	515	6.37
583	10.0C	681	112	21:10:49	45:35:19	50573	0: 0	-0:55	88	8.30	8.50	177	64	24	40980H	540	6.32
584	3.7C	684	119	21:10:49	45:35:19	50573	-0: 6	-1:17	88	8.30	7.50	85	27	22	10860H	455	6.50
585	10.0C	673	157	21:10:59	44:40:55	71077	-0: 7	1:39	88	7.09	.00	128	14	67	530	825	6.80
586	1.0L	622	716	21:11:10	33:29:10	71077	-0: 3	1:32	88	7.09	.00	263	26	141	1486	800	6.73
587	3.0L	616	718	21:11:10	33:29:10	71077	0: 2	2:20	88	7.09	.00	124	25	17	1255	615	6.17
588	3.0C	595	716	21:11:10	33:29:10	71077	-0: 5	0:34	88	7.09	.00	267	65	20	4924	850	5.82
589	10.0C	622	713	21:11:10	33:29:10	71077	-0: 5	2:28	88	7.09	.00	143	29	18	1659	615	6.17
590	3.7C	624	719	21:11:11	33:29:10	71078	0: 2	0:30	40	8.70	8.90	57	9	18	270 L	73	8.50
591	10.0C	644	416	21:11:11	33:28:59	71078	-0: 8	1: 2	88	8.00	7.30	106	8	67	237	585	7.18
592	1.0L	630	626	21:11:12	35:18:58	71079	-0: 8	1: 1	88	8.00	7.30	226	18	143	808	480	7.39
593	3.0L	625	628	21:11:12	35:18:58	71079	-0: 1	1:46	88	8.00	7.30	82	17	17	840	388	6.88
594	10.0C	573	626	21:11:12	35:18:58	71079	-0: 3	1: 7	88	8.00	7.30	184	40	20	2858	488	6.43
595	10.0C	629	623	21:11:12	35:18:58	71079	-0: 2	1:44	88	8.00	7.30	101	21	20	930	400	6.84
596	3.7C	631	629	21:11:12	35:18:58	71079	-0: 1	0:12	40	8.00	7.90	56	22	22	574 L	148	7.73
597	10.0C	687	51	21:11:15	46:44:21	50582	-0: 3	0:13	A0	8.40	8.00	200	12	136	491	312	7.06
598	3.0L	830	548	21:11:16	36:53:41	71082	0: 1	2:19	A0	8.40	8.00	59	12	15	354	204	7.38
599	3.0C	578	546	21:11:16	36:53:41	71082	-0: 3	0:21	A0	8.40	8.00	136	27	20	1537	208	7.38
600	10.0C	634	543	21:11:16	36:53:41	71082	-0: 3	0:21	A0	8.40	8.00	136	27	20	1537	208	7.38

OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAD NO.	A R.A.	A DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	BO	DENSITY VOLUME	CORR. V/E	UV MAG.
601	3.7C	636	549	21:11:16	36:53:41	71082	-0: 1	0:57	A0	8.40	8.00	71	15	16	532	244	7.18
602	1.0L	666	213	21:11:18	43:40: 1	50583	-0: 8	-1:29	B3	7.90	7.50	90	11	58	276 L	650	7.06
603	3.0L	662	215	21:11:18	43:40: 1	50583	-0: 5	-1:22	B3	7.90	7.50	216	24	132	1058 L	575	7.20
604	3.0C	606	213	21:11:18	43:40: 1	50583	0: 9	-0:34	B3	7.90	7.50	91	21	17	863 L	480	6.44
605	10.0C	663	210	21:11:18	43:40: 1	50583	-0: 0	-1:39	B3	7.90	7.50	214	40	28	2959 L	406	6.83
606	3.7C	665	217	21:11:18	43:40: 1	50583	-0: 1	-2: 9	B3	7.90	7.50	105	23	22	1032 L	430	6.56
607	3.0L	642	383	21:11:24	40:15: 1	50585	0: 9	0:55	B8	8.60	8.80	185	13	136	412	282	7.97
608	3.0C	588	381	21:11:24	40:15: 1	50585	0:18	1:45	B8	8.60	8.80	58	9	13	274	194	7.43
609	10.0C	644	378	21:11:24	40:15: 1	50585	0:11	-0:22	B8	8.60	8.80	122	24	20	1220	170	7.58
610	3.7C	647	385	21:11:24	40:15: 1	50585	0: 2	0:24	B8	8.60	8.80	66	10	16	341	188	7.59
611	10.0C	631	566	21:11:25	36:25:34	71086	-0: 2	0:32	A5	6.05	.00	56	8	20	226 L	54	8.83
612	10.0C	633	474	21:11:41	36:21: 2	71092/	0:13	-2:49		8.70	9.20	73	19	22	622	97	8.19
613	10.0C	633	474	21:11:50	36:14: 4	71096/	0: 4	4: 9		8.80	9.10	73	19	22	622	97	8.19
614	1.25L	666	129	21:11:53	45:24:14	50592	-0: 4	-0:52	B5	7.40	7.10	44	7	20	152	3788	5.14
615	1.0L	674	125	21:11:53	45:24:14	50592	-0: 8	-1:27	B5	7.40	7.10	172	64	56	33640H	4600	4.93
616	3.0L	670	127	21:11:53	45:24:14	50592	-0: 3	-1:19	B5	7.40	7.10	380	98	124	89520H	5500	4.73
617	3.0C	614	125	21:11:53	45:24:14	50592	-0: 1	-1:34	B5	7.40	7.10	242	65	17	53700H	2400	4.89
618	10.0C	670	122	21:11:53	45:24:14	50592	0: 3	-2:54	B5	7.40	7.10	407	158	23	157490H	2669	4.57
619	3.7C	673	129	21:11:53	45:24:14	50592	-0: 3	-2: 3	B5	7.40	7.10	296	75	19	68180H	2550	4.62
620	10.0C	633	474	21:11:57	38:17:28	71098/	-0: 3	0:45		8.80	9.10	73	19	22	622	97	8.19
621	1.0L	597	855	21:12: 2	30:45:13	71101	0: 4	0:22	A0	7.80	7.60	90	7	61	179	530	7.29
622	3.0L	591	857	21:12: 2	30:45:13	71101	-0: 0	0:19	A0	7.80	7.60	193	23	128	909	490	7.37
623	3.0C	591	856	21:12: 2	30:45:13	71101	0:10	1: 8	A0	7.80	7.60	79	27	17	971	535	6.33
624	10.0C	598	853	21:12: 2	30:45:13	71101	0: 5	-0:34	A0	7.80	7.60	178	52	19	3838 H	538	6.32
625	3.7C	600	859	21:12: 2	30:45:13	71101	-0: 3	0:13	A0	7.80	7.60	94	29	18	1229 H	505	6.39
626	1.0L	629	517	21:12: 6	37:34:26	71104	0: 3	-0:22	B3*	7.70	7.20	103	40	25	848 H	5500	4.73
627	1.0L	629	512	21:12: 6	37:34:26	71104	0: 6	0:23	B3*	7.70	7.20	296	45	66	3571	4900	4.86
628	3.0L	625	514	21:12: 6	37:34:26	71104	0: 2	0:25	B3*	7.70	7.20	393	93	135	7107 H	7200	4.44
629	3.0C	572	512	21:12: 6	37:34:26	71104	0:10	2:32	B3*	7.70	7.20	298	65	18	5469 H	2450	4.67
630	10.0C	628	509	21:12: 6	37:34:26	71104	0: 6	0:34	B3*	7.70	7.20	399	157	20	15401 H	2310	4.73
631	3.7C	631	516	21:12: 6	37:34:26	71104	0: 2	-0: 2	B3*	7.70	7.20	315	82	19	6952 H	2600	4.60
632	1.0L	614	685	21:12:16	34: 5:12	71109/	-0: 5	1: 7	B8	7.02	.00	175	21	70	1101	1400	6.23
633	3.0L	609	687	21:12:16	34: 5:12	71109/	-0: 6	1: 3	B8	7.02	.00	328	38	143	2600	1700	6.02
634	3.0C	557	685	21:12:16	34: 5:12	71109/	-0: 4	3: 8	B8	7.02	.00	168	35	17	2164	990	5.85
635	10.0C	614	682	21:12:16	34: 5:12	71109/	-0: 4	1:22	B8	7.02	.00	336	83	20	7273	1180	5.46
636	3.7C	616	689	21:12:16	34: 5:12	71109/	-0: 4	0:43	B8	7.02	.00	196	45	18	2864	990	5.85
637	1.0L	613	707	21:12:19	33:35:47	711107	-0:17	4:12	A0	9.00	9.20	98	5	65	1347	475	7.41
638	10.0C	612	706	21:12:19	33:35:47	71110	-0: 8	2: 7	A0	9.00	9.20	43	3	20	65 L	44	9.05
639	1.0L	614	685	21:12:22	34: 6:21	71112:	-0:11	-0: 2	A2	8.20	8.30	175	21	70	1101 H	1400	6.23
640	3.0L	609	687	21:12:22	34: 6:21	71112:	-0:12	-0: 6	A2	8.20	8.30	328	38	143	2600 H	1700	6.02
641	3.0C	557	685	21:12:22	34: 6:21	71112:	-0: 2	1:59	A2	8.20	8.30	168	35	17	2164 H	990	5.85
642	10.0C	614	682	21:12:22	34: 6:21	71112:	-0:10	0:13	A2	8.20	8.30	336	74	20	7273 H	1180	5.46
643	3.7C	616	689	21:12:22	34: 6:21	71112:	-0:11	-0:26	A2	8.20	8.30	196	45	18	2864 H	990	5.85
644	10.0C	624	522	21:12:32	37:18:18	NO						48	6	20	148	57	8.77
645	3.0L	624	466	21:12:33	38:33:31	71117	0: 4	0:21	B9	8.90	8.80	156	4	134	88 L	126	8.85
646	10.0C	628	460	21:12:33	38:33:31	71117	-0: 1	0:39	B9	8.90	8.80	87	14	15	556 L	114	8.01
647	3.7C	630	467	21:12:33	38:33:31	71117	0: 2	-0: 3	B9	8.90	8.80	47	5	15	129 L	108	8.07
648	3.0L	626	499	21:12:47	37:49:52	711217	-0:39	3:57	F0	3.82	.00	163	9	135	201	191	8.40
649	10.0C	630	494	21:12:47	37:49:52	711217	-0:42	2:56	F0	3.82	.00	64	12	20	3827	84	8.35
650	3.0L	646	234	21:12:53	43:15:32	50610	-0: 7	-0:39		8.90	9.20	160	4	131	104	137	8.76

PAGE, CARRUTHERS, AND HECKATHORN

OBJECT NO.	EXP. FILTER	X	Y	R.A.	DEC.	SAO NO.	Δ R.A.	Δ DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	BG	DENSITY VOLUME	CORR. V/E	UV MAG.
651	10.0C	635	319	21:12:59	41:26:12	50612	0: 8	0:25	A2	8.30	8.60	52	7	18	203 L	72	8.51
652	10.0C	596	773	21:13:10	32:16:29	71124	-0: 4	1: 6		8.70	9.20	54	9	19	245	59	8.73
653	10.0C	644	212	21:13:22	43:34:29	NO						63	7	30	192	57	8.77
654	10.0C	619	473	21:13:25	38:18:18							49	6	18	1557	48	8.96
655	1.0L	614	538	21:13:33	37: 2:37	71128	-0: 5	-0:35	B8	7.80	7.70	138	18	63	741	1070	6.52
656	3.0L	609	540	21:13:33	37: 2:37	71128	-0: 3	0:33	B8	7.80	7.70	276	27	139	1636	940	6.65
657	3.0C	557	537	21:13:33	37: 2:37	71128	0: 7	2:47	B8	7.80	7.70	118	26	15	1351	655	6.11
658	10.0C	613	534	21:13:33	37: 2:37	71128	-0: 3	0:58	B8	7.80	7.70	267	58	19	4720	702	6.03
659	3.7C	615	541	21:13:33	37: 2:37	71128	-0: 2	0:14	B8	7.80	7.70	144	31	17	1754	655	6.11
660	3.0L	591	710	21:13:42	33:38:12	NO						178	13	142	3737	280	7.98
661	10.0C	603	652	21:13:43	34:40:23	71134	-0: 7	1:31	A0	8.30	8.60	64	19	20	570	206	7.37
662	3.0L	648	160	21:13:45	44:44:43	50627	0: 1	-1:53	A0	8.00	7.20	182	29	124	1036	540	7.27
663	3.0C	593	157	21:13:45	44:44:43	50627	-0: 1	-0:44	A0	8.00	7.20	79	21	15	816	465	6.48
664	10.0C	649	154	21:13:45	44:44:43	50627	-0: 4	-1:51	A0	8.00	7.20	191	46	25	3122	387	6.68
665	3.7C	652	161	21:13:45	44:44:43	50627	-0: 3	-1: 8	A0	8.00	7.20	97	25	18	1082	455	6.50
666	1.0L	655	118	21:14: 9	45:31:20	50644	-0: 5	-2:47	B9	7.80	7.70	80	4	57	88 L	412	7.56
667	3.0L	652	119	21:14: 9	45:31:20	50644	-0: 7	-1:25	B9	7.80	7.70	182	32	123	1183	550	7.25
668	3.0C	596	117	21:14: 9	45:31:20	50644	-0: 4	-0:19	B9	7.80	7.70	76	25	16	927	510	6.38
669	10.0C	652	114	21:14: 9	45:31:20	50644	-0: 1	-1:32	B9	7.80	7.70	187	60	23	3885	625	6.16
670	3.7C	655	121	21:14: 9	45:31:20	50644	-0: 7	-1:57	B9	7.80	7.70	93	30	21	1204	500	6.40
671	10.0C	612	444	21:14:22	38:53:12	71147	0: 7	-0:23	A2	8.20	8.30	61	9	18	296 L	73	8.50
672	3.0L	657	270	21:14:23	40:30:58	NO						152	4	129	86	123	8.88
673	10.0C	615	388	21:14:51	40:26: 1	NO	-0: 2	-0:38				46	5	19	114	42	9.10
674	3.0L	591	690	21:15: 0	34: 1:28	NO	0: 1	0: 3				185	8	143	251	217	8.26
675	10.0C	586	685	21:15: 0	34: 1:28	NO	0: 1	0:34				88	17	20	745	185	7.61
676	3.7C	598	691	21:15: 0	34: 1:28	NO	0: 3	0:20	A0	8.50	8.50	52	6	18	169	169	7.58
677	10.0C	609	398	21:15: 7	39:48:48	71156	-0: 0	-1:13	A3	8.70	8.70	74	10	131	375 L	72	8.51
678	3.0L	653	247	21:15:10	42:59: 0	50684	0: 0	-0: 8	A3	8.70	8.70	172	10	131	292 M	245	8.13
679	3.0C	598	245	21:15:10	42:59: 0	50684	0: 0	-0:58	A3	8.70	8.70	132	23	25	272 M	177	7.53
680	10.0C	654	242	21:15:10	42:59: 0	50684	-0: 1	-1:35	A3	8.70	8.70	70	9	19	1206 M	185	7.61
681	3.7C	657	249	21:15:11	42:59: 0	50684	-0: 1	-1:41	A2	8.70	8.80	52	6	17	172	131	7.86
682	3.0C	595	60	21:15:11	46:34: 6	50686	-0: 1	-0:41	A2	8.70	8.80	50	17	21	394	118	7.98
683	10.0C	652	59	21:15:11	46:34: 6	50686	-0: 4	2:54	A2	9.00	9.20	72	16	20	341	100	8.16
684	10.0C	579	731	21:15:21	33: 4: 9	71161						52	10	18	2647	46	9.00
685	10.0C	595	537	21:15:23	36:59:25	NO						53	5	25	115 L	2200	5.73
686	.25L	597	436	21:15:26	39:11: 3	71165	0: 8	-0: 7	A0	4.28	.00	174	24	63	1206 L	1550	6.12
687	1.0L	605	432	21:15:26	39:11: 3	71165	0: 4	-0:33	A0	4.28	.00	327	36	132	2705 L	1650	6.05
688	3.0L	600	434	21:15:26	39:11: 3	71165	0: 8	-0:45	A0	4.28	.00	186	35	162	2388 L	1020	5.82
689	3.0C	597	432	21:15:26	39:11: 3	71165	0: 14	1:43	A0	4.28	.00	341	79	19	7356 L	1148	5.50
690	10.0C	603	429	21:15:26	39:11: 3	71165	0: 8	-0:12	A0	4.28	.00	217	45	17	3133 L	1050	5.59
691	3.7C	606	435	21:15:26	39:11: 3	71165	0: 5	0:23	A0	4.28	.00	74	19	22	981	4350	4.99
692	.25L	613	275	21:15:29	42:28:22	50671	0: 4	-2:14	B8	6.09	.00	245	43	60	3850	3950	5.10
693	1.0L	621	271	21:15:29	42:28:22	50671	0: 0	-2:14	B8	6.09	.00	383	78	129	5031	5200	4.80
694	3.0L	617	273	21:15:29	42:28:22	50671	0: 1	-1:18	B8	6.09	.00	260	58	17	4328	1850	4.97
695	3.0C	582	270	21:15:29	42:28:22	50671	0:19	1:12	B8	6.09	.00	378	128	25	1127	1830	4.98
696	10.0C	618	267	21:15:29	42:28:22	50671	0:11	-0:50	B8	6.09	.00	300	66	20	5310	1930	4.93
697	3.7C	621	274	21:15:29	42:28:22	50671	0: 3	-1:23	B8	6.09	.00	85	22	22	673	132	7.85
698	10.0C	643	96	21:15:32	45:51:48	50672	-0: 4	-1:53	B9	8.50	8.30	52	6	17	1757	58	8.75
699	10.0C	599	500	21:15:49	37:50:37	71172?	0:35	-0:35		9.00	9.50	161	6	128	1507	165	8.56
700	3.0L	619	238	21:15:50	43: 8:30												

NRL REPORT 8487

OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAD NO.	Δ R.A.	Δ DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	BG	DENSITY VOLUME	CORR. V/E	UV MAG.
701	.25L	574	657	21:15:51	34:41:9	71173	-0:0	2:23	83	4.42	.00	290	79	26	5735	33000	2.78
702	1.0L	582	653	21:15:51	34:41:9	71173	-0:5	0:43	83	4.42	.00	414	212	70	19928	49000	2.35
703	3.0C	577	655	21:15:51	34:41:9	71173	-0:5	1:45	83	4.42	.00	454	340	1407	40522	49000	2.35
704	3.0C	525	652	21:15:51	34:41:9	71173	0:4	4:14	83	4.42	.00	426	288	18	32398	18400	2.47
705	10.0C	582	649	21:15:51	34:41:9	71173	-0:5	2:32	83	4.42	.00	459	657	20	74667	13320	2.82
706	3.7C	583	656	21:15:51	34:41:9	71173	0:2	2:55	83	4.42	.00	433	314	21	38108	17700	2.51
707	1.0L	553	886	21:15:52	30:6:47	71174	0:6	-0:12	95	7.80	7.56	113	25	63	774	1140	6.45
708	3.0L	547	887	21:15:52	30:6:47	71174	0:6	0:44	85	7.80	7.56	242	49	125	2698	1800	6.08
709	3.0C	498	886	21:15:52	30:6:47	71174	0:1	2:19	85	7.80	7.56	114	37	17	1842	860	5.81
710	10.0C	554	883	21:15:52	30:6:47	71174	0:8	0:26	85	7.80	7.56	260	80	20	6687	837	5.84
711	3.7C	556	890	21:15:52	30:6:47	71174	0:5	-0:13	85	7.80	7.56	139	43	20	2313	860	5.81
712	3.0C	592	457	21:16:7	38:41:35	71178	0:0	0:18	85	9.30	9.60	157	5	130	118	147	8.69
713	10.0C	595	452	21:16:7	38:41:35	71178	0:1	0:56	85	9.30	9.60	74	30	18	1019	103	8.12
714	3.0C	607	295	21:16:14	42:0:42	50880	0:11	-1:55	A0	8.40	8.20	162	7	130	185	180	8.46
715	3.0C	553	293	21:16:14	42:0:42	50880	0:17	0:34	A0	8.40	8.20	48	7	14	181	148	7.73
716	10.0C	609	290	21:16:14	42:0:42	50880	0:8	-1:25	A0	8.40	8.20	112	19	22	922	127	7.90
717	3.7C	612	297	21:16:14	42:0:42	50880	0:7	-2:5	A0	8.40	8.20	58	10	16	307	145	7.75
718	1.0L	648	57	21:16:15	46:38:46	50881	-0:5	-0:3	89	7.00	.00	93	39	51	1103	1600	6.08
719	3.0L	644	59	21:16:15	46:38:46	50881	0:1	-0:6	89	7.00	.00	230	76	119	4093	2780	5.48
720	3.0C	587	57	21:16:15	46:38:46	50881	0:1	-0:4	89	7.00	.00	115	54	18	2588	1167	5.46
721	10.0C	644	54	21:16:15	46:38:46	50881	-0:4	0:4	89	7.00	.00	294	61	18	9710	1380	5.29
722	3.7C	647	61	21:16:15	46:38:46	50881	-0:2	-0:26	89	7.00	.00	146	61	18	3512	1300	5.36
723	.25L	612	212	21:16:35	43:44:5	50890+H1	0:1	-2:18	O	5.06	.00	246	64	21	4888	27000	3.00
724	1.0L	620	207	21:16:35	43:44:5	50890+H1	0:3	-3:49	O	5.06	.00	419	161	62	16615	37000	2.85
725	3.0L	615	210	21:16:35	43:44:5	50890+H1	0:6	-3:46	O	5.06	.00	450	295	129	32004	40000	2.57
726	3.0C	561	207	21:16:35	43:44:5	50890+H1	0:7	-2:7	O	5.06	.00	420	209	18	21698	12200	2.92
727	10.0C	616	204	21:16:35	43:44:5	50890+H1	0:4	-2:7	O	5.06	.00	453	399	35	48507	10200	3.11
728	3.7C	620	211	21:16:35	43:44:5	50890+H1	0:3	-2:39	O	5.06	.00	427	237	24	25051	12000	2.93
729	1.0L	582	568	21:16:41	36:23:27	71191	-0:7	0:5	A0	8.40	8.30	103	10	64	290	845	7.07
730	3.0L	577	570	21:16:41	36:23:27	71191	-0:5	1:5	A0	8.40	8.30	230	19	136	915	515	7.32
731	3.0C	525	568	21:16:41	36:23:27	71191	-0:0	2:26	A0	8.40	8.30	79	16	15	606	375	6.71
732	10.0C	581	565	21:16:41	36:23:27	71191	-0:4	0:37	A0	8.40	8.30	191	39	18	2550	352	6.78
733	3.7C	583	572	21:16:41	36:23:27	71191	-0:3	1:4	A0	8.40	8.30	100	19	16	832	375	6.71
734	10.0C	617	189	21:16:42	43:52:10	50891?	0:5	7:20	A0	8.60	8.80	87	33	25	1085	173	7.56
735	3.7C	620	196	21:16:42	43:52:10	50891?	0:5	7:49	A0	8.60	8.80	46	6	20	134	158	7.66
736	3.0L	588	448	21:16:45	38:53:4	NO	-0:1	-0:16				151	3	129	60	96	9.15
737	10.0C	591	443	21:16:45	38:53:4	NO	0:1	0:17				61	11	17	3417	73	8.50
738	10.0C	617	189	21:16:49	44:1:39	50897?	-0:2	-2:9	A	8.90	9.10	87	33	25	1085	173	7.56
739	3.7C	620	196	21:16:49	44:1:39	50897?	-0:2	-1:39	A	8.90	9.10	46	6	20	134	158	7.66
740	1.0L	538	915	21:16:52	29:31:53	89613/	0:6	-0:4	A0	7.12	.00	88	10	60	238	810	7.13
741	3.0L	532	917	21:16:52	29:31:53	89613/	0:6	-0:25	A0	7.12	.00	186	36	121	1323	870	7.03
742	3.0C	482	916	21:16:52	29:31:53	89613/	0:8	1:12	A0	7.12	.00	81	31	19	1100	590	6.22
743	10.0C	539	913	21:16:52	29:31:53	89613/	0:9	-0:36	A0	7.12	.00	186	72	20	4782	845	6.12
744	3.7C	541	920	21:16:52	29:31:53	89613/	0:6	-1:15	A0	7.12	.00	97	36	21	1501	600	6.20
745	1.0L	592	414	21:17:2	39:32:15	71195	0:4	-0:29	A0	6.64	.00	128	15	61	591	920	6.68
746	3.0L	587	416	21:17:2	39:32:15	71195	0:8	-0:45	A0	6.64	.00	261	25	129	1542	835	6.79
747	3.0C	534	414	21:17:2	39:32:15	71195	0:13	1:51	A0	6.64	.00	125	22	25	1017	505	6.39
748	10.0C	590	411	21:17:2	39:32:15	71195	0:6	-0:1	A0	6.64	.00	262	52	19	4180	814	6.18
749	3.7C	593	417	21:17:2	39:32:15	71195	0:3	0:31	AC	6.64	.00	140	28	16	1594	605	6.19
750	1.0L	538	915	21:17:12	29:28:53	89617:	-0:14	2:56	A0	9.00	9.42	88	10	60	238	610	7.13

## PAGE, CARRUTHERS, AND HECKATHORN

OBJECT NO.	EXP. & FILTER	X	Y	R.A.	D.F.C.	SAO NO.	A R.A.	A DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	BO	DENSITY VOLUME	CORR. V/E	UV MAG.
751	3.0L	532	917	21:17:12	29:28:53	89617	-0:14	2:35	A0	9.00	9.42	186	36	121	1323 M	670	7.03
752	3.0C	492	916	21:17:12	29:28:53	89617	-0:12	4:12	A0	9.00	9.42	81	31	19	1100 M	590	6.22
753	10.0C	539	913	21:17:12	29:28:53	89617	-0:11	2:24	A0	9.00	9.42	186	72	20	4762 M	645	6.12
754	3.7C	541	920	21:17:12	29:28:53	89617	-0:14	1:45	A0	9.00	9.42	97	36	21	1501 M	600	6.20
755	1.0L	582	488	21:17:22	38:1:30	HD203156	0:0	-0:6	F2*	5.75	.00	88	4	61	93	415	7.95
756	3.0L	577	490	21:17:22	38:1:30	HD203156	0:4	-0:13	F2*	5.75	.00	185	14	128	5327	315	7.05
757	3.0C	555	488	21:17:22	38:1:30	HD203156	0:6	2:27	F2*	5.75	.00	62	12	13	409	300	6.96
758	10.0C	581	485	21:17:22	38:1:30	HD203156	0:1	-0:38	F2*	5.75	.00	140	29	17	1674	241	7.20
759	3.7C	584	491	21:17:22	38:1:30	HD203156	-0:3	1:9	F2*	5.75	.00	77	16	21	496	267	7.08
760	10.0C	588	385	21:17:34	40:4:2	50711	0:6	-0:42		8.80	9.00	50	6	17	171	63	8.66
761	10.0C	611	147	21:18:13	44:48:7	NO						72	17	22	5587	105	8.10
762	1.0L	551	722	21:18:15	33:16:22	71220	-0:6	2:8	A0	6.84	.00	93	6	84	144	482	7.39
763	3.0L	546	724	21:18:15	33:16:22	71220	-0:8	1:49	A0	6.84	.00	195	16	137	556	342	7.76
764	3.0C	495	722	21:18:15	33:16:22	71220	-0:2	4:38	A0	6.84	.00	70	15	14	518	344	6.81
765	10.0C	551	719	21:18:15	33:16:22	71220	-0:4	2:53	A0	6.84	.00	158	38	20	2240	309	6.93
766	3.7C	553	726	21:18:15	33:16:22	71220	-0:5	2:4	A0	6.84	.00	87	17	16	695	332	6.85
767	3.0L	531	777	21:19:15	32:23:57	71237	-0:19	-8:30	A0	6.03	.00	183	9	132	3107L		
768	3.0L	530	787	21:19:15	32:23:57	71237	-0:2	2:29	A0	6.03	.00	176	11	132	340 L	475*	7.41
769	3.0C	480	765	21:19:15	32:23:57	71237	0:1	5:32	A0	6.03	.00	60	13	15	405 L	300	6.96
770	10.0C	536	763	21:19:15	32:23:57	71237	-0:1	2:32	A0	6.03	.00	135	37	19	1952 L	244	7.18
771	3.7C	538	769	21:19:15	32:23:57	71237	-0:2	2:57	A0	6.03	.00	80	18	20	596 L	300	6.96
772	10.0C	607	112	21:19:26	45:30:45	50750	-0:4	-2:34	A	8.80	9.10	51	9	21	225	66	8.61
773	10.0C	558	514	21:19:36	37:24:33	71281	-0:2	-0:4		9.20	9.40	47	6	17	148	41	9.13
774	3.0C	526	246	21:19:51	42:55:49	50758	0:23	-0:12	A0	8.20	8.00	37	4	15	85 L	93	8.24
775	10.0C	593	242	21:19:51	42:55:49	50758	0:8	-0:40	A0	8.20	8.00	86	15	26	549	90	8.27
776	3.7C	586	249	21:19:51	42:55:49	50758	-0:1	-0:17	A0	8.20	8.00	47	4	19	93 L	82	8.37
777	3.0L	542	587	21:20:25	38:25:30	71255	-0:8	-0:5	A0	8.40	8.20	169	7	138	184	178	8.48
778	10.0C	499	565	21:20:25	38:25:30	71255	0:4	2:45	A0	8.40	8.20	44	4	15	100	176	7.94
779	10.0C	562	562	21:20:25	38:25:30	71255	-0:7	-0:6	A0	8.40	8.20	100	22	18	952	155	7.88
780	3.7C	548	568	21:20:25	38:25:30	71255	-0:5	1:30	A0	8.40	8.20	52	7	18	186	177	7.53
781	3.0L	548	469	21:20:46	38:25:11	71266	-0:2	-1:1	A0	8.45	.00	172	11	129	332 L	237	8.16
782	3.0C	495	467	21:20:46	38:25:11	71266	0:12	1:44	A0	8.45	.00	65	10	15	335 L	221	7.29
783	10.0C	531	464	21:20:46	38:25:11	71266	-0:0	0:9	A0	8.45	.00	134	28	18	1464 L	193	7.44
784	3.7C	554	470	21:20:46	38:25:11	71266	-0:4	0:35	A0	8.45	.00	69	12	17	406 L	182	7.50
785	1.0L	561	366	21:20:53	40:28:57	50772	0:11	-0:36	95	7.40	7.30	137	22	62	898	1250	6.35
786	3.0L	557	367	21:20:53	40:28:57	50772	0:10	0:20	95	7.40	7.30	288	30	134	2034	1230	6.37
787	3.0C	553	366	21:20:53	40:28:57	50772	0:19	1:53	95	7.40	7.30	125	28	15	1299	640	6.13
788	10.0C	560	363	21:20:53	40:28:57	50772	0:4	-0:59	95	7.40	7.30	271	59	18	4740	748	5.96
789	3.7C	562	369	21:20:53	40:28:57	50772	0:9	0:37	95	7.40	7.30	150	30	19	1693	825	5.96
790	10.0C	580	185	21:21:7	44:4:22	50780	-0:1	-2:35		8.70	9.00	51	4	24	105	68	8.58
791	1.0L	531	432	21:21:18	38:8:4	71273	0:4	-1:7	99	7.90	7.40	94	7	62	180	530	7.29
792	3.0L	546	433	21:21:18	38:8:4	71273	0:9	-0:19	99	7.90	7.40	203	15	130	632	360	7.71
793	3.0C	493	431	21:21:18	38:8:4	71273	0:15	2:37	99	7.90	7.40	75	12	15	485	313	6.91
794	10.0C	549	428	21:21:18	38:8:4	71273	0:8	0:56	99	7.90	7.40	164	32	17	2123	396	6.85
795	3.7C	552	435	21:21:18	38:8:4	71273	0:5	0:6	99	7.90	7.40	98	16	16	692	327	6.86
796	3.0L	534	547	21:21:26	36:48:47	71277	-0:7	-0:29		9.10	9.10	185	5	134	124	152	8.85
797	10.0C	538	542	21:21:26	36:48:47	71277	-0:0	0:45		9.10	9.10	85	15	19	607	104	8.11
798	3.7C	540	549	21:21:26	36:48:47	71277	-0:5	-0:4		9.10	9.10	46	6	16	150	104	8.11
799	3.0L	520	638	21:21:53	34:57:3	71282	-0:8	1:37	A0	8.20	9.10	192	10	140	342	255	8.08
800	3.0C	488	637	21:21:53	34:57:3	71282	0:0	3:27	A0	8.20	9.10	50	6	14	177	214	7.33



CYGNUS, R.A. 21:24 DEC. +37:30 (6 FRAMES)

OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAD NO.	A R.A.	A DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	BO	DENSITY VOLUME	CORR. V/E	UV MAG.
801	10.0C	525	634	21:21:53	34:57:3	71282	-0:10	0:38	A0	8.20	9.10	110	25	19	1188	172	7.56
802	3.7C	527	640	21:21:53	34:57:3	71282	-0:9	2:12	A0	8.20	9.10	62	9	16	299	212	7.34
803	3.0L	598	43	21:22:1	46:56:56	50792?	-0:1	-5:7	B2	7.40	7.40	77	8	122	273 L	208	8.31
804	10.0C	598	35	21:22:1	46:56:56	50792	0:2	-0:46	B2	7.40	7.40	73	34	22	11937L	205	7.37
805	10.0C	542	437	21:22:2	38:56:37	71283	0:4	0:15	A	8.80	8.80	51	7	17	192 L	56	8.79
806	10.0C	528	571	21:22:06	36:13:0	NO*	-0:7	-3:5				85	19	20	727	116	7.99
807	3.0L	524	576	21:22:12	36:16:11	NO*	0:2	0:46				184	4	136	92	8.82	7.99
808	10.0C	527	588	21:22:12	36:16:11	NO*	0:4	2:18				85	29	20	1152	146	7.74
809	3.7C	529	574	21:22:12	36:16:11	NO*	-0:6	2:42	A0	8.40	8.90	46	10	187	251	206	7.37
810	3.0L	506	705	21:22:31	33:35:23	71300	-0:5	4:38	A0	8.40	8.90	40	4	15	182	151	8.66
811	3.0C	454	704	21:22:31	33:35:23	71300	-0:4	1:48	A0	8.40	8.90	91	23	19	943	152	7.55
812	10.0C	511	701	21:22:31	33:35:23	71300	-0:3	3:22	A0	8.40	8.90	49	7	17	178	175	7.95
813	3.7C	513	707	21:22:31	33:35:23	71300	-0:1	-0:52	A	8.80	9.00	85	18	23	641	97	8.19
814	10.0C	562	226	21:22:32	43:13:36	50805	-0:2	-0:9				193	12	140	431	293	7.93
815	1.0L	512	653	21:22:57	34:37:39	NO*	-0:2	-0:44				54	8	15	228	243	7.19
816	3.0L	507	655	21:22:57	34:37:39	NO*	-0:2	-0:19				119	30	18	1465	228	7.26
817	3.0C	455	654	21:22:57	34:37:39	NO*	-0:1	-0:2				63	13	15	424	250	7.16
818	10.0C	512	651	21:22:57	34:37:39	NO*	-0:9	1:14				64	10	18	330	66	8.61
819	3.7C	514	657	21:22:57	34:37:39	NO*	-0:9	1:10				142	25	26	1273	90	8.27
820	10.0C	540	315	21:23:37	41:25:24	50828?	-0:5	0:11	B0	5.84	5.84	320	55	67	4382 L	8400	4.57
821	10.0C	498	716	21:23:41	33:15:55	71326	-0:1	0:14	B0	5.84	5.84	320	55	67	4382 L	8400	4.57
822	.25L	507	586	21:23:44	36:27:2	71329	-0:5	0:11	B0	5.84	5.84	320	55	67	4382 L	8400	4.57
823	1.0L	515	582	21:23:44	36:27:2	71329	-0:4	1:9	B0	5.84	5.84	320	55	67	4382 L	8400	4.57
824	3.0C	510	583	21:23:44	36:27:2	71329	-0:7	1:31	B0	5.84	5.84	320	55	67	4382 L	8400	4.57
825	3.0C	458	582	21:23:44	36:27:2	71329	-0:10	-0:13	B0	5.84	5.84	320	55	67	4382 L	8400	4.57
826	10.0C	515	589	21:23:44	36:27:2	71329	-0:7	1:17	B0	5.84	5.84	320	55	67	4382 L	8400	4.57
827	3.7C	517	585	21:23:44	36:27:2	71329	-0:2	5:22	A0	8.30	8.50	62	10	17	321 L	73	8.50
828	3.0L	550	236	21:23:46	43:5:15	71330	-0:8	-0:12	A	8.60	9.10	68	9	19	315	79	8.41
829	10.0C	524	464	21:23:49	38:17:57	50833	-0:16	-6:3	A2	8.50	8.60	155	4	130	87 L	124	8.87
830	10.0C	544	271	21:23:53	42:18:34	50839?	-0:1	4:8	A2	8.50	8.60	155	4	130	87 L	124	8.87
831	10.0C	540	315	21:24:3	41:30:27	71343	0:2	4:51	A2	8.50	8.60	155	4	130	87 L	124	8.87
832	3.0L	472	798	21:24:34	31:41:20	71343	0:6	3:46	A2	8.50	8.60	155	4	130	87 L	124	8.87
833	10.0C	478	794	21:24:34	31:41:20	71343	0:3	-0:38	A2	8.50	8.60	155	4	130	87 L	124	8.87
834	3.7C	479	801	21:24:34	31:41:20	71343	0:3	-0:38	A2	8.50	8.60	155	4	130	87 L	124	8.87
835	3.0L	541	228	21:24:51	43:14:18	50856	0:1	-1:30	A2	8.20	8.40	157	11	125	250	204	8.33
836	10.0C	542	224	21:24:51	43:14:18	50856	0:1	-1:30	A2	8.20	8.40	157	11	125	250	204	8.33
837	3.0L	543	211	21:24:52	43:35:40	50859	0:7	-1:42	B9	7.30	7.50	153	9	125	204 L	185	8.43
838	3.0C	488	209	21:24:52	43:35:40	50859	0:15	-0:2	B9	7.30	7.50	153	9	125	204 L	185	8.43
839	10.0C	544	206	21:24:52	43:35:40	50859	0:4	-1:36	B9	7.30	7.50	153	9	125	204 L	185	8.43
840	3.7C	547	213	21:24:52	43:35:40	50859	0:5	-1:12	B9	7.30	7.50	153	9	125	204 L	185	8.43
841	3.0L	533	278	21:24:53	42:14:52	50861	0:5	-1:30	A	8.60	8.70	153	9	125	204 L	185	8.43
842	10.0C	535	273	21:24:53	42:14:52	50861	0:8	-0:8	A	8.60	8.70	153	9	125	204 L	185	8.43
843	3.7C	537	280	21:24:53	42:14:52	50861	0:7	-0:60	A	8.60	8.70	153	9	125	204 L	185	8.43
844	10.0C	538	235	21:25:6	43:0:47	50868	0:6	-0:56	A	7.70	7.60	64	10	19	315 L	63	8.83
845	.25L	495	543	21:25:18	36:53:55	71358	0:1	0:29	B3	5.20	5.20	350	91	68	1890	11384	3.94
846	1.0L	503	539	21:25:18	36:53:55	71358	-0:4	-1:10	B3	5.20	5.20	350	91	68	1890	11384	3.94
847	3.0C	497	540	21:25:18	36:53:55	71358	0:4	-0:41	B3	5.20	5.20	350	91	68	1890	11384	3.94
848	3.0C	445	539	21:25:18	36:53:55	71358	0:9	1:29	B3	5.20	5.20	350	91	68	1890	11384	3.94
849	10.0C	502	536	21:25:18	36:53:55	71358	-0:2	0:3	B3	5.20	5.20	350	91	68	1890	11384	3.94
850	3.7C	504	542	21:25:18	36:53:55	71358	-0:0	0:15	B3	5.20	5.20	350	91	68	1890	11384	3.94

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CYGNUS, R.A. 21:24 DEC. +37:30 (6 FRAMES)																	
OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAO NO.	A R.A.	A DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	BG	DENSITY VOLUME	CORR. V/E	UV MAG.
851	.25L	555	70	21:26:4	46:20:34	50890	-0:8	-1:15	85	6.88	.00	40	0	21	0	3316	5.29
852	1.0L	563	66	21:26:4	46:20:34	50890	-0:9	-1:15	85	6.88	.00	142	66	52	30030M	4.95	4.95
853	3.0L	559	68	21:26:4	46:20:34	50890	-0:9	-1:33	85	6.88	.00	352	112	123	92360M	4.74	4.74
854	3.0C	502	67	21:26:4	46:20:34	50890	0:7	1:7	85	6.88	.00	214	72	16	5330M	2208	4.78
855	10.0C	559	64	21:26:4	46:20:34	50890	-0:7	-1:41	85	6.88	.00	400	143	24	156660M	2060	4.86
856	3.7C	562	70	21:26:4	46:20:34	50890	-0:11	-1:4	85	6.88	.00	260	95	18	70510M	2180	4.79
857	10.0C	517	302	21:26:30	41:39:25	50906	0:6	-0:35	A0	8.00	8.80	74	13	18	496 L	88	8.30
858	10.0C	521	275	21:26:35	42:11:42							49	4	19	108	37	9.24
859	10.0C	465	740	21:26:36	32:43:39	71377	-0:0	4:11	89	8.30	8.30	61	13	13	382 L	79	8.41
860	1.0L	557	59	21:26:39	46:27:17	50911	0:6	-0:11		9.20	9.60	62	0	52	00	234	8.18
861	3.0C	499	60	21:26:39	46:27:17	50911				9.20	9.60	35	0	16	00	156	7.67
862	10.0C	555	58	21:26:39	46:27:17	50911	-0:9	-1:33		9.20	9.60	87	41	24	14860	184	7.49
863	3.7C	559	65	21:26:39	46:27:17	50911				9.20	9.60	50	18	18	4990	250	7.16
864	1.0L	470	680	21:27:1	33:59:38	71383	-0:12	2:14	A5	8.30	8.50	95	4	67	94	404	7.58
865	3.0L	465	681	21:27:1	33:59:38	71383	-0:13	2:49	A5	8.30	8.50	199	14	139	540 M	345	7.75
866	3.0C	413	680	21:27:1	33:59:38	71383	0:3	3:49	A5	8.30	8.50	55	12	15	338 M	280	7.03
867	10.0C	470	677	21:27:1	33:59:38	71383	-0:5	3:35	A5	8.30	8.50	124	31	19	1694 M	256	7.13
868	3.7C	472	684	21:27:1	33:59:38	71383	0:11	2:38	A5	8.30	8.50	74	15	16	326 M	270	7.07
869	10.0C	534	148	21:27:13	44:42:13	50925	-0:6	-0:27	88	6.90	.00	83	20	19	794 L	137	7.81
870	3.7C	536	155	21:27:13	44:42:13	50925	0:2	-1:26	88	6.90	.00	42	5	15	122 L	157	7.66
871	1.0L	531	180	21:27:20	44:7:6	50930	-0:5	-0:20	82	7.52	.00	154	34	56	1669	2140	5.76
872	3.0L	527	182	21:27:20	44:7:6	50930	-0:2	-0:52	82	7.52	.00	325	58	122	4223	3000	5.40
873	3.0C	471	181	21:27:20	44:7:6	50930	0:18	0:39	82	7.52	.00	199	37	14	2556 L	1060	5.58
874	10.0C	527	178	21:27:20	44:7:6	50930	0:1	-0:39	82	7.52	.00	349	73	20	7227 L	1173	5.47
875	3.7C	530	185	21:27:20	44:7:6	50930	0:1	-1:31	82	7.52	.00	225	42	17	3094 L	1030	5.61
876	10.0C	552	31	21:27:26	46:55:40	NO						57	34	22	908	281E	7.03
877	1.0L	452	748	21:27:50	32:35:24	71397	-0:3	4:11	88	7.60	7.70	152	22	63	1050 M	1380	6.24
878	3.0L	446	750	21:27:50	32:35:24	71397	0:0	3:20	88	7.60	7.70	305	37	134	2240	1430	6.20
879	3.0C	395	749	21:27:50	32:35:24	71397	0:7	4:46	88	7.60	7.70	149	32	17	1813	820	5.86
880	10.0C	452	746	21:27:50	32:35:24	71397	0:0	4:29	88	7.60	7.70	304	73	19	6487	987	5.66
881	3.7C	454	753	21:27:50	32:35:24	71397	-0:1	3:24	88	7.60	7.70	170	43	18	2490	890	5.77
882	10.0C	447	776	21:27:51	32:0:5	71398	0:6	4:22		8.70	9.10	46	6	19	149	56	8.79
883	10.0C	424	894	21:27:57	29:40:12	89757	0:14	0:60	A0	8.30	7.95	55	16	19	443 L	107	8.08
884	3.7C	426	901	21:27:57	29:40:12	89757	0:5	0:8	A0	8.30	7.95	41	4	17	91 L	136	7.82
885	3.0L	463	619	21:28:1	35:15:8	71402	-0:7	0:41	A0	7.17	.00	163	4	137	88 L	122	8.89
886	10.0C	468	615	21:28:1	35:15:8	71402	-0:9	0:21	A0	7.17	.00	83	22	17	862 L	157	7.66
887	3.7C	470	621	21:28:1	35:15:8	71402	-0:7	1:44	A0	7.17	.00	47	6	15	156 L	170	7.58
888	3.7C	454	695	21:28:6	33:46:17	714047	0:25	1:0	A3	8.50	9.00	74	48	16	1848 M	750	5.96
889	1.0L	535	120	21:28:8	45:16:27	50942	-0:3	-0:32	85	6.96	.00	118	31	54	1156	1938	5.87
890	3.0L	531	122	21:28:8	45:16:27	50942	-0:3	-1:5	85	6.96	.00	288	67	118	4391	3000	5.49
891	3.0C	475	121	21:28:8	45:16:27	50942	0:8	1:50	85	6.96	.00	172	44	16	2749	1150	5.49
892	10.0C	531	118	21:28:8	45:16:27	50942	-0:5	-0:49	85	6.96	.00	363	83	21	8384 L	1110	5.53
893	3.7C	534	125	21:28:8	45:16:27	50942	-0:11	-1:31	85	6.96	.00	213	43	19	3259 L	1080	5.56
894	3.0L	458	639	21:28:16	34:50:26	71407	0:11	0:52	A0	8.40	8.50	182	48	139	251	214	8.28
895	3.0C	406	638	21:28:16	34:50:26	71407	0:3	1:58	A0	8.40	8.50	50	6	16	159	207	7.36
896	10.0C	463	635	21:28:16	34:50:26	71407	-0:11	1:56	A0	8.40	8.50	107	27	18	1236	178	7.33
897	3.7C	465	641	21:28:16	34:50:26	71407	-0:11	2:4	A0	8.40	8.50	58	9	17	264	204	7.30
898	3.0L	469	536	21:28:23	36:55:26							171	4	134	1207	147	8.89
899	10.0C	443	443	21:28:25	38:45:35	NO						47	5	16	139	71	8.53
900	10.0C	423	859	21:28:43	30:20:30	71416	0:6	2:18	A2	8.50	8.23	47	5	19	129 L	70	8.55

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CYGNUS. R.A. 21:24 DEC. +37:30 (6 FRAMES)																	
OBJ. NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAD NO.	Δ R.A.	Δ DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	BG	DENSITY VOLUME	CORR. V/E	UV MAG.
901	1.0L	472	527	21:28:46	37: 9: 1	NO	-0: 7	-4:20				98	5	62	146	482	7.39
902	3.0L	467	528	21:28:46	37: 9: 1	NO	-0: 5	-3:51				205	10	135	4167	275	8.00
903	1.0L	505	241	21:29: 7	42:53: 7	50962	0: 8	-0:33	89	8.20	8.50	92	9	57	239	618	7.12
904	3.0L	501	243	21:29: 7	42:53: 7	50962	0: 9	-1:10	89	8.20	8.50	202	24	123	1006	520	7.31
905	3.0C	446	242	21:29: 7	42:53: 7	50962	0:18	-0:29	89	8.20	8.50	76	16	14	587	372	6.72
906	10.0C	502	238	21:29: 7	42:53: 7	50962	0: 9	-0:35	89	8.20	8.50	179	30	19	2150	355	6.77
907	3.7C	505	245	21:29: 7	42:53: 7	50962	0: 9	-0:17	89	8.20	8.50	100	18	16	759	350	6.79
908	3.0L	488	320	21:29:15	41:19: 4	50966	0: 8	0:27	89	8.20	8.60	187	17	128	635	385	7.69
909	3.0C	434	319	21:29:15	41:19: 4	50966	0:20	1:10	89	8.20	8.60	58	9	15	274	256	7.13
910	10.0C	490	316	21:29:15	41:19: 4	50966	0: 6	-0: 2	89	8.20	8.60	136	26	18	1415	221	7.29
911	3.7C	493	323	21:29:15	41:19: 4	50966	0: 4	-1: 1	89	8.20	8.60	74	11	17	407	236	7.22
912	10.0C	508	192	21:29:17	43:48: 6	50968	0: 5	-0:23	A2	8.90	9.20	59	10	19	304	75	8.47
913	10.0C	494	278	21:29:23	42: 5:18	50970	0:12	0:11				67	10	19	333	68	8.58
914	1.0L	497	261	21:29:40	42:28:46	50977	0: 7	-0:52	85	7.30	6.90	122	16	60	575	905	6.70
915	3.0L	493	262	21:29:40	42:28:46	50977	0: 9	-0:17	85	7.30	6.90	254	29	123	1707	950	6.65
916	3.0C	438	261	21:29:40	42:28:46	50977	0:19	1:42	85	7.30	6.90	115	23	14	1135	580	6.24
917	10.0C	495	258	21:29:40	42:28:46	50977	0: 3	0:32	85	7.30	6.90	256	47	19	3903	533	6.33
918	3.7C	497	265	21:29:40	42:28:46	50977	0: 9	-0:35	85	7.30	6.90	149	27	17	1482	560	6.28
919	3.0L	520	79	21:30:22	46: 2: 8	50998	-0:10	1:35	A0	8.00	7.50	158	19	117	579	310	7.87
920	3.0C	464	79	21:30:22	46: 2: 8	50998	0: 6	3:13	A0	8.00	7.50	61	19	16	587	378	6.71
921	10.0C	520	76	21:30:22	46: 2: 8	50998	-0: 8	0:41	A0	8.00	7.50	148	49	19	2977	375	6.67
922	3.7C	523	83	21:30:22	46: 2: 8	50998	-0:13	-0: 1	A0	8.00	7.50	74	23	17	636	390	6.67
923	10.0C	435	687	21:30:37	34: 7:59	71446	-0: 3	2:55				45	5	18	121	55	8.81
924	1.0L	422	747	21:30:42	32:33:17	71448	0: 4	4:24	89	7.17	.00	129	16	62	660	990	6.60
925	3.0L	417	749	21:30:42	32:33:17	71448	0: 1	3:34	89	7.17	.00	271	28	133	1676	970	6.63
926	3.0C	366	748	21:30:42	32:33:17	71448	0: 8	5:20	89	7.17	.00	123	43	10	1930	812	5.87
927	10.0C	423	745	21:30:42	32:33:17	71448	0: 1	5: 5	89	7.17	.00	271	65	19	5223	790	5.90
928	3.7C	424	752	21:30:42	32:33:17	71448	0: 6	3:46	89	7.17	.00	142	38	17	2002	755	5.95
929	10.0C	468	380	21:30:52	40: 0:25	51008	0: 1	-0:41	A2	8.60	8.50	68	13	17	446	87	8.31
930	10.0C	468	368	21:30:57	40:14:49	51011	0: 6	-0: 4				51	7	17	195	62	8.68
931	3.0L	469	330	21:31:15	41: 5:11	51022	0: 7	0: 5				156	5	129	118	145	8.70
932	10.0C	471	326	21:31:15	41: 5:11	51022	0: 6	-0: 9				82	15	18	568	96	8.20
933	3.7C	474	333	21:31:15	41: 5:11	51022	0: 4	-1:12				44	4	15	101	118	7.98
934	3.0L	433	586	21:31:21	35:51:20	NO	0: 1	-0: 5				167	6	137	150	167	8.55
935	10.0C	438	583	21:31:21	35:51:20	NO	-0: 1	0: 1				74	16	18	588	116	7.99
936	3.7C	440	589	21:31:21	35:51:20	NO	0: 0	0: 3				44	4	16	937	140	7.79
937	3.0L	504	113	21:31:32	45:23:18	NO	0:12	-0:14	A0	8.20	8.10	150	9	119	2267	190	8.41
938	3.0L	479	247	21:31:32	42:44:57	51029	0:21	0:37	A0	8.20	8.10	168	11	121	353	240	8.15
939	3.0C	424	246	21:31:32	42:44:57	51029	0:21	0:37	A0	8.20	8.10	62	10	14	326	287	7.01
940	10.0C	481	243	21:31:32	42:44:57	51029	0: 5	-0:27	A0	8.20	8.10	146	25	18	1494	212	7.34
941	3.7C	483	250	21:31:32	42:44:57	51029	0:11	-0:22	A0	8.20	8.10	76	11	18	399	235	7.22
942	1.0L	452	465	21:31:33	38:18:16	71461	0: 5	-1:36	89	8.00	.00	124	14	62	541	845	6.78
943	3.0L	448	467	21:31:33	38:18:16	71461	0: 1	-2:20	89	8.00	.00	261	22	130	1345	710	6.97
944	3.0C	395	466	21:31:33	38:18:16	71461	0: 8	0:12	89	8.00	.00	113	22	14	1087	960	6.28
945	10.0C	451	463	21:31:33	38:18:16	71461	0: 3	-1: 8	89	8.00	.00	250	47	18	3797	949	6.30
946	3.7C	454	469	21:31:33	38:18:16	71461	-0: 0	-0:58	89	8.00	8.00	141	23	18	1298	475	6.46
947	3.0L	456	397	21:31:38	39:43: 4	71464	0: 7	-0:55				189	10	133	356	250	8.11
948	3.0C	402	396	21:31:38	39:43: 4	71464	0:17	0:10				54	10	14	285	184	7.49
949	10.0C	459	393	21:31:38	39:43: 4	71464	0: 5	0:18				129	25	18	1306	170	7.58
950	3.7C	461	400	21:31:38	39:43: 4	71464	0: 8	-0:56				66	11	15	368	164	7.62

## CYGNUS. R.A. 21:24 DEC. ♦37:30 (6 FRAMES)

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CYGNUS. R.A. 21:24 DEC. +37:30 (6 FRAMES)																	
OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAO NO.	A R.A.	A DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF BG POINTS	DENSITY VOLUME	CORR. V/E	UV MAG.	
1001	10.0C	455	185	21:35:35	43:49:41	51110	0: 7	-1:36	A0	8.90	8.90	50	6	185 L	60	8.71	
1002	1.0L	419	423	21:35:46	39: 5:29	71538	0: 5	-1:52	B9	6.66	.00	125	14	519	830	6.00	
1003	3.0L	414	424	21:35:46	39: 5:29	71538	0: 9	-1:43	B9	6.66	.00	259	23	134	710	6.97	
1004	3.0C	361	423	21:35:46	39: 5:29	71538	0:13	-0: 6	B9	6.66	.00	117	25	14	628	6.15	
1005	10.0C	418	421	21:35:46	39: 5:29	71538	0: 1	-1: 4	B9	6.66	.00	266	50	18	598	6.20	
1006	3.7C	420	427	21:35:46	39: 5:29	71538	-0: 2	-1: 0	B9	6.66	.00	153	28	16	600	6.20	
1007	3.0L	334	889	21:35:49	29:37:54	89862	0: 8	0:31	A0	8.40	8.02	144	10	115	193	8.39	
1008	3.0C	285	889	21:35:49	29:37:54	89862	0: 1	-0: 6	A0	8.40	8.02	43	8	16	228	7.26	
1009	10.0C	341	887	21:35:49	29:37:54	89862	0:10	0:19	A0	8.40	8.02	97	44	19	280	7.03	
1010	3.7C	343	893	21:35:49	29:37:54	89862	0: 7	0:19	A0	8.40	8.02	51	14	18	241	7.20	
1011	10.0C	434	294	21:35:59	41:39:17	51118	0: 1	-0:21	A0	8.70	8.60	66	13	14	96	8.20	
1012	3.0L	402	442	21:36:48	38:41:54	71557	0: 2	-1:20	A0	8.60	8.80	165	4	134	137	8.76	
1013	10.0C	406	439	21:36:48	38:41:54	71557	-0: 5	-0:35	A0	8.60	8.80	83	17	18	105	8.10	
1014	3.7C	408	445	21:36:48	38:41:54	71557	-0: 1	-0:42	A0	8.60	8.80	48	7	16	117	7.98	
1015	10.0C	442	192	21:37:0	43:39:48	51140	-0: 2	-1: 9	A0	8.90	8.90	50	7	18	50	8.91	
1016	10.0C	445	168	21:37:15	43:57:28	511467	-0:11	8:41	A5	8.70	8.80	57	11	19	66	8.61	
1017	10.0C	462	72	21:37:21	45:56:54	51150	0: 0	3:54	B9	8.20	7.70	58	16	19	143	7.77	
1018	1.0L	414	356	21:37:24	40:24:37	51151	0: 5	-0:58	A0	8.10	7.70	92	5	61	475	7.41	
1019	3.0L	409	357	21:37:24	40:24:37	51151	0:11	-0:53	A0	8.10	7.70	199	14	132	335	7.79	
1020	3.0C	355	357	21:37:24	40:24:37	51151	0:17	-0:38	A0	8.10	7.70	69	13	13	318	6.89	
1021	10.0C	412	354	21:37:24	40:24:37	51151	0: 5	-0:13	A0	8.10	7.70	170	31	18	307	6.93	
1022	3.7C	415	360	21:37:24	40:24:37	51151	0: 3	-0:10	A0	8.10	7.70	80	14	18	276	7.05	
1023	10.0C	426	258	21:37:29	42:19:30	51152	0: 3	1:23	B9	9.10	9.60	51	17	17	49	8.93	
1024	1.0L	442	184	21:37:57	44:12:17	51161	0: 3	-0:32	B9	6.70	.00	90	14	54	785	6.89	
1025	3.0L	439	165	21:37:57	44:12:17	51161	-0: 0	-0: 5	B9	6.70	.00	186	30	116	525	7.30	
1026	3.0C	382	166	21:37:57	44:12:17	51161	0:17	-0:14	B9	6.70	.00	114	26	13	658	6.10	
1027	10.0C	439	163	21:37:57	44:12:17	51161	0: 1	-1:11	B9	6.70	.00	265	53	19	563	6.27	
1028	3.7C	442	169	21:37:57	44:12:17	51161	-0: 5	-0:53	B9	6.70	.00	136	30	17	628	6.15	
1029	10.0C	444	131	21:38: 5	44:47:19	51171	0: 2	-1:16	A0	8.90	8.90	161	4	18	59	8.73	
1030	3.0L	403	332	21:38:35	40:53:45	51171	0: 2	-1:16	A0	8.90	8.90	161	4	133	135	8.78	
1031	10.0C	405	329	21:38:35	40:53:45	51171	0: 1	-0:40	A0	8.90	8.90	96	19	19	127	7.79	
1032	3.7C	408	335	21:38:35	40:53:45	51171	-0: 1	-0:38	A0	8.90	8.90	52	4	21	140	7.79	
1033	10.0C	305	919	21:38:36	28:53:59	51178	0: 8	-0:24	A0	8.40	8.00	156	6	126	160	8.59	
1034	3.0L	399	323	21:39:11	41: 3: 7	51178	0: 8	-0:24	A0	8.40	8.00	44	5	14	197	7.42	
1035	3.0C	344	323	21:39:11	41: 3: 7	51178	0:12	-0: 4	A0	8.40	8.00	44	5	14	126 L	197	7.42
1036	10.0C	401	320	21:39:11	41: 3: 7	51178	0: 6	0:17	A0	8.40	8.00	106	19	19	883 L	161	7.84
1037	3.7C	403	327	21:39:11	41: 3: 7	51178	0: 4	-0:57	A0	8.40	8.00	54	8	17	226 L	193	7.44
1038	3.0L	392	346	21:39:29	40:34: 1	51187	0: 8	0:13	A0	9.20	9.30	165	7	130	185	8.43	
1039	3.0C	338	346	21:39:29	40:34: 1	51187	0:14	0:36	A0	9.20	9.30	52	9	13	252	163	7.82
1040	10.0C	394	343	21:39:29	40:34: 1	51187	0: 8	0:56	A0	9.20	9.30	112	23	19	126	161	7.84
1041	3.7C	397	350	21:39:29	40:34: 1	51187	0: 5	-0:19	A0	9.20	9.30	68	11	16	385	193	7.44
1042	3.0L	392	346	21:39:33	40:34:39	51189	0: 4	-0:25	A0	6.05	.00	165	7	130	185	8.43	
1043	3.0C	338	346	21:39:33	40:34:39	51189	0: 9	-0: 1	A0	6.05	.00	52	9	13	252 L	163	7.82
1044	10.0C	394	343	21:39:33	40:34:39	51189	0: 1	0:19	A0	6.05	.00	112	23	19	126 L	161	7.84
1045	3.7C	397	350	21:39:33	40:34:39	51189	0: 1	-0:56	A0	6.05	.00	66	11	16	385 L	193	7.44
1046	3.0L	387	360	21:39:47	40:17:49	51196	0: 9	-0:42	A0	7.60	8.10	158	5	129	145	8.70	
1047	3.0C	333	360	21:39:47	40:17:49	51196	0:15	-1:31	A0	7.60	8.10	46	7	13	178 L	136	7.82
1048	10.0C	390	357	21:39:47	40:17:49	51196	0: 3	-1: 0	A0	7.60	8.10	108	21	18	967	141	7.78
1049	3.7C	393	363	21:39:47	40:17:49	51196	0: 2	0:13	A0	7.60	8.10	58	7	21	200 L	174	7.95
1050	1.0L	360	536	21:40:19	36:40:20	71625	-0: 6	-3: 1	A0	8.90	8.70	145	18	63	1100	6.49	

## PAGE, CARRUTHERS, AND HECKATHORN

CYGNUS, R.A. 21:24 DEC. +37:30 (6 FRAMES)

OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAD NO.	A R.A.	A DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	BO	DENSITY VOLUME	CORR. V/E	UV MAG.
1051	3.0L	355	537	21:40:19	36:40:20	71625	-0:3	-1:47	A0	8.90	8.70	289	28	136	1779 H	1050	6.54
1052	3.0C	303	537	21:40:19	36:40:20	71625	-0:2	-1:56	A0	8.90	8.70	129	29	16	1515 H	730	5.99
1053	10.0C	359	534	21:40:19	36:40:20	71625	-0:4	-1:51	A0	8.90	8.70	282	60	19	5246 H	849	5.82
1054	3.7C	362	540	21:40:19	36:40:20	71625	-0:8	-0:40	A0	8.90	8.70	145	36	16	1997 H	740	5.97
1055	1.0L	391	331	21:40:21	40:50:53	51207	0:1	-1:37	A0	5.48	.00	118	12	61	149 L	700	6.98
1056	3.0L	387	332	21:40:21	40:50:53	51207	0:2	-0:13	A0	5.48	.00	241	26	126	1406 L	735	6.93
1057	3.0C	333	332	21:40:21	40:50:53	51207	0:6	-1:2	A0	5.48	.00	124	23	14	1211 L	600	6.20
1058	10.0C	389	329	21:40:21	40:50:53	51207	0:0	-0:39	A0	5.48	.00	289	47	19	1480 L	611	6.18
1059	3.7C	392	335	21:40:21	40:50:53	51207	-0:0	0:35	A0	5.48	.00	156	29	16	1711 L	630	6.15
1060	10.0C	417	138	21:41:0	44:35:46	51220	0:0	-0:31	A3	8.30	8.50	58	15	18	445	94	8.22
1061	1.0L	361	467	21:41:21	38:3:14	71643/	-0:5	-2:23	A0	5.62	.00	139	17	63	718	1020	6.57
1062	3.0L	356	468	21:41:21	38:3:14	71643/	-0:2	-2:27	A0	5.62	.00	275	40	131	2058	1300	6.31
1063	3.0C	303	468	21:41:21	38:3:14	71643/	0:2	-2:48	A0	5.62	.00	154	33	14	1905	865	5.80
1064	10.0C	360	465	21:41:21	38:3:14	71643/	-0:6	-1:8	A0	5.62	.00	318	71	18	6347	910	5.75
1065	3.7C	362	472	21:41:21	38:3:14	71643/	-0:5	-2:39	A0	5.62	.00	176	35	17	2317	820	5.86
1066	1.0L	361	467	21:41:32	38:4:30	71646/	-0:16	-3:18	A0	6.87	.00	139	17	63	718	1020	6.57
1067	3.0L	356	468	21:41:32	38:4:30	71646/	-0:13	-3:42	A0	6.87	.00	275	40	131	2058	1300	6.31
1068	10.0C	303	468	21:41:32	38:4:30	71646/	-0:9	-4:4	A0	6.87	.00	154	33	14	1905	865	5.80
1069	10.0C	360	465	21:41:32	38:4:30	71646/	-0:17	-2:24	A0	6.87	.00	318	71	18	6347	910	5.75
1070	3.7C	362	472	21:41:32	38:4:30	71646/	-0:16	-3:55	A0	6.87	.00	102	7	62	2317	820	5.86
1071	1.0L	361	435	21:41:46	38:39:30	51237	0:2	1:1	A0	9.00	9.40	47	5	17	132	49	8.93
1072	10.0C	382	285	21:42:0	41:40:57	71654	-0:0	-0:38	A0	8.50	8.30	57	12	18	335 L	77	8.44
1073	10.0C	328	612	21:42:13	35:11:28	89948	-0:1	-0:34	A0	7.40	7.06	41	6	15	137 L	294	6.98
1074	3.0C	208	915	21:42:15	28:57:48	89948	0:11	-3:3	A0	7.40	7.06	79	41	18	1505	257	7.13
1075	10.0C	265	912	21:42:15	28:57:48	89948	0:7	-3:14	A0	7.40	7.06	41	7	17	152 L	210	7.35
1076	3.7C	266	918	21:42:15	28:57:48	89948	-0:10	-2:31	A0	9.10	9.00	45	4	17	105 L	54	8.03
1077	10.0C	338	529	21:42:39	36:43:27	71661	-0:10	-2:31	A0	9.10	9.00	45	4	17	105 L	54	8.03
1078	10.0C	263	892	21:43:5	29:18:31	NO						56	33	20	10217	175	7.55
1079	10.0C	384	212	21:43:15	43:6:3	51256/	-0:4	1:15	A	8.50	8.80	59	10	18	307	72	8.51
1080	10.0C	384	212	21:43:18	43:3:16	51257/	-0:7	4:2	A0	8.70	9.10	59	10	18	307	72	8.51
1081	10.0C	409	84	21:43:20	45:30:12	51259	-0:7	2:45	A0	8.90	9.30	49	9	21	218	78	8.43
1082	3.0L	329	508	21:43:28	37:10:11	71674	-0:4	-1:49	A0	8.80	8.30	174	6	140	1620	173	8.51
1083	3.0C	276	509	21:43:28	37:10:11	71674	-0:0	-4:24	A0	8.80	8.30	47	5	21	112	184	7.49
1084	10.0C	333	506	21:43:28	37:10:11	71674	-0:7	-1:30	A0	8.80	8.30	119	26	17	1470	228	7.26
1085	3.7C	335	512	21:43:28	37:10:11	71674	-0:4	-1:50	A0	8.80	8.30	62	12	16	380	237	7.21
1086	10.0C	388	167	21:43:47	43:57:59	71674	-0:4	-1:50	A0	8.80	8.30	44	5	18	118	74	8.48
1087	10.0C	396	117	21:43:58	44:55:31	51272/	0:2	-0:10	A0	8.50	8.80	71	27	19	943	162	7.63
1088	10.0C	396	117	21:44:5	44:52:27	51275/	-0:5	2:54	89	8.70	9.10	71	27	19	943	162	7.63
1089	3.0L	323	508	21:44:7	37:9:30	71680	-0:5	-2:20	89	8.70	8.30	184	9	132	3180	235	8.17
1090	3.0C	270	508	21:44:7	37:9:30	71680	-0:0	-3:37	89	8.70	8.30	47	9	14	228	248	7.17
1091	10.0C	327	505	21:44:7	37:9:30	71680	-0:7	-1:33	89	8.70	8.30	119	26	17	1470	195	7.43
1092	3.7C	329	512	21:44:7	37:9:30	71680	-0:5	-2:18	89	8.70	8.30	66	13	16	421	248	7.17
1093	10.0C	372	224	21:44:17	42:49:44	51277	0:4	1:40	A0	6.43	.00	49	6	18	163 L	60	8.71
1094	10.0C	344	385	21:44:22	39:37:8	71684	-0:5	-1:3	A0	8.30	8.10	60	17	18	671	114	8.01
1095	3.7C	346	391	21:44:22	39:37:8	71684	-0:1	-1:23	A0	8.30	8.10	48	6	18	143 L	182	7.63
1096	10.0C	407	47	21:44:23	46:13:16	51279	0:2	0:5	A0	8.50	8.70	53	19	19	515	141	7.78
1097	10.0C	367	209	21:45:3	43:5:22	51294/	0:14	2:5	A0	8.60	8.40	45	4	18	94 L	41	9.13
1098	10.0C	367	209	21:45:12	43:5:54	51298/	0:4	1:33	88	9.00	9.10	45	4	18	94	41	9.13
1099	1.0L	258	790	21:45:29	31:17:44	71710	0:13	0:39	88	8.10	8.20	86	10	58	236	615	7.12
1100	3.0L	252	790	21:45:29	31:17:44	71710	0:16	1:30	88	8.10	8.20	186	35	124	1076	560	7.23

NRL REPORT 8487

CYGNUS, R.A. 21:24 DEC. +37:30 (6 FRAMES)

OBJECT NO.	EXP. FILTER	X	Y	R.A.	DEC.	SAD NO.	A R.A.	A DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	BG	DENSITY VOLUME	CORR. V/E	UV MAG.
1101	3.0C	202	791	21:45:29	31:17:44	71710	0: 1	-0:27	88	8.10	8.20	70	22	16	773	470	6.47
1102	10.0C	259	788	21:45:29	31:17:44	71710	0:13	2:36	88	8.10	8.20	158	59	18	3619	583	6.23
1103	3.7C	260	795	21:45:29	31:17:44	71710	0:16	0:51	88	8.10	8.20	87	31	17	1217	510	6.38
1104	10.0C	251	823	21:45:30	30:36:18	71711	0:10	1:19		9.50	10.00	52	13	18	355	114	8.01
1105	3.0C	359	229	21:45:41	42:45:20							162	6	114	2197	185	8.43
1106	10.0C	370	174	21:45:42	43:46:43	51309	-0: 6	0:30	A0	7.60	7.70	53	9	18	257 L	68	8.58
1107	1.0C	265	726	21:46:13	32:33:47	71718	0:11	1:35	A0	6.79	.00	95	9	58	262	640	7.08
1108	3.0C	260	727	21:46:13	32:33:47	71718	0: 8	1:21	A0	6.79	.00	214	28	120	1337	680	7.01
1109	3.0C	209	728	21:46:13	32:33:47	71718	-0: 3	-0:52	A0	6.79	.00	93	28	15	1125	602	6.20
1110	10.0C	265	725	21:46:13	32:33:47	71718	0:14	2:11	A0	6.79	.00	212	57	19	4163	627	6.15
1111	3.7C	267	731	21:46:13	32:33:47	71718	0:12	1:48	A0	6.79	.00	109	29	17	1386	550	6.30
1112	.25L	309	446	21:46:24	38:24:55	71722	-0: 1	-1:18	89	5.80	.00	67	9	24	278	3000	5.40
1113	1.0C	317	442	21:46:24	38:24:55	71722	-0: 6	-2:55	89	5.80	.00	197	29	61	1650	2100	5.78
1114	3.0C	312	443	21:46:24	38:24:55	71722	-0: 2	-1:58	89	5.80	.00	327	49	130	3552	2400	5.64
1115	3.0C	259	444	21:46:24	38:24:55	71722	-0: 1	-4:23	89	5.80	.00	228	48	15	3518	1460	5.23
1116	10.0C	316	441	21:46:24	38:24:55	71722	-0: 9	-2:31	89	5.80	.00	385	103	18	10617	2290	4.74
1117	3.7C	318	447	21:46:24	38:24:55	71722	-0: 5	-1:41	89	5.80	.00	269	55	19	4369	1510	5.19
1118	3.0C	324	321	21:47:14	40:51:33	51333	0:14	-0:15		8.70	9.20	158	15	4	106	138	8.75
1119	10.0C	327	318	21:47:14	40:51:33	51333	0:13	1:23		8.70	9.20	115	30	18	1431	222	7.29
1120	3.7C	329	325	21:47:14	40:51:33	51333	0:11	-0: 3		8.70	9.20	59	7	19	207	184	7.49
1121	3.0C	324	321	21:47:15	40:47:48	51334	0:13	3:29	A2	8.20	8.00	158	4	129	106	138	8.75
1122	10.0C	327	318	21:47:15	40:47:48	51334	0:12	5: 8	A2	8.20	8.00	115	30	18	1431	222	7.29
1123	3.7C	329	325	21:47:15	40:47:48	51334	0:10	3:42	A2	8.20	8.00	59	7	19	207	184	7.49
1124	3.0C	324	321	21:47:29	40:51:51	51341	-0: 1	-0:33		8.30	8.10	158	4	129	106	138	8.75
1125	10.0C	327	318	21:47:29	40:51:51	51341	-0: 2	1: 5		8.30	8.10	115	30	18	1431	222	7.29
1126	3.7C	329	325	21:47:29	40:51:51	51341	-0: 4	-0:21		8.30	8.10	59	7	19	207	184	7.49
1127	1.0C	218	854	21:47:36	29:56:26	90040	0:18	-3: 1	A0	5.00	.00	117	38	54	1422	1900	5.89
1128	3.0C	212	855	21:47:36	29:56:26	90040	0:18	-3:28	A0	5.00	.00	253	72	115	3838	2400	5.64
1129	3.0C	162	856	21:47:36	29:56:26	90040	0: 7	-3:41	A0	5.00	.00	155	74	17	4246	1960	4.91
1130	10.0C	219	853	21:47:36	29:56:26	90040	0:20	-2: 7	A0	5.00	.00	351	145	19	14258	1990	4.89
1131	3.7C	220	859	21:47:36	29:56:26	90040	0:17	-1:16	A0	5.00	.00	184	84	19	5488	2260	4.75
1132	3.0C	324	321	21:47:37	40:54:54	51344	-0:10	-3:36	A0	6.49	.00	158	4	129	106 L	138	8.75
1133	10.0C	327	318	21:47:37	40:54:54	51344	-0:10	-1:58	A0	6.49	.00	115	30	18	1431 L	222	7.29
1134	3.7C	329	325	21:47:37	40:54:54	51344	-0:13	-3:24	A0	6.49	.00	59	7	19	207 L	184	7.49
1135	10.0C	272	620	21:47:40	34:40:58	71747	-0: 2	-0:24	A0	7.50	7.80	56	9	17	272 L	77	8.44
1136	3.0C	327	297	21:47:43	41:20:29	51346	-0: 3	-0:21	89	8.20	8.20	150	6	120	154 L	157	8.61
1137	3.0C	272	297	21:47:43	41:20:29	51346	0: 4	-2: 6	89	8.20	8.20	40	4	12	96 L	178	7.53
1138	10.0C	329	294	21:47:43	41:20:29	51346	-0: 5	1:19	89	8.20	8.20	104	22	20	973 L	143	7.77
1139	3.7C	332	300	21:47:43	41:20:29	51346	-0: 6	1: 7	89	8.20	8.20	49	7	16	189 L	183	7.50
1140	10.0C	212	873	21:47:49	29:52:25	90043	0:19	-0:14	A0	8.20	7.67	56	18	19	668	147E	7.74
1141	3.0C	316	321	21:48:24	40:49:42	51355	-0: 4	-0:11	A0	8.20	8.10	164	8	124	237	210	8.70
1142	3.0C	262	321	21:48:24	40:49:42	51355	-0: 2	-1:38	A0	8.20	8.10	51	10	13	278	264	7.10
1143	10.0C	318	318	21:48:24	40:49:42	51355	0: 2	1:21	A0	8.20	8.10	129	31	18	1601	205	7.37
1144	3.7C	321	325	21:48:24	40:49:42	51355	-0: 7	0: 7	A0	8.20	8.10	73	13	14	476	261	7.11
1145	3.0C	203	894	21:48:42	29:52:36	NO						135	6	105	1517	146	8.69
1146	1.0C	301	394	21:49: 0	39:18: 6	71767	-0: 4	-1:24	89	6.19	.00	161	26	61	1176	1500	6.15
1147	3.0C	297	393	21:49: 0	39:18: 6	71767	-0: 6	-1:35	89	6.19	.00	296	39	126	2463	1500	6.15
1148	3.0C	243	396	21:49: 0	39:18: 6	71767	-0: 7	-2:38	89	6.19	.00	194	38	15	2516	1070	5.57
1149	10.0C	300	393	21:49: 0	39:18: 6	71767	-0: 9	-0:48	89	6.19	.00	356	82	17	8040	1350	5.32
1150	3.7C	302	399	21:49: 0	39:18: 6	71767	-0: 5	-1:16	89	6.19	.00	220	45	18	3234	1070	5.57

OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAO NO.	$\Delta$ R.A.	$\Delta$ DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	BG	DENSITY VOLUME	CORR. V/E	UV MAG.
1151	3.0C	359	54	21:49:49	45:57:49	51376	0:18	0:23	B9	8.20	8.10	134	9	110	190 L	170	8.53
1152	3.0C	303	54	21:49:49	45:57:49	51376	0:13	-1:31	B9	8.20	8.10	38	10	12	229 L	253	7.14
1153	10.0C	359	52	21:49:49	45:57:49	51376	0:12	0:36	B9	8.20	8.10	84	47	19	1813	285	7.01
1154	3.7C	362	58	21:49:49	45:57:49	51376	0:8	0:44	B9	8.20	8.10	43	15	15	358 L	233	7.23
1155	3.0C	190	849	21:49:53	29:57:20	90058	0:6	-2:29	B9	8.40	7.40	130	9	104	204	170	8.53
1156	10.0C	195	848	21:49:53	29:57:20	90058	0:24	-1:26	B9	8.40	7.40	70	40	19	1323	218	7.31
1157	3.0C	316	238	21:50:12	42:24:34	51388	-0:2	0:21	A3	8.90	8.70	164	16	117	503 M	280	7.98
1158	3.0C	261	239	21:50:12	42:24:34	51388	-0:1	-2:33	A3	8.90	8.70	60	13	14	404 M	300	6.96
1159	10.0C	318	236	21:50:12	42:24:34	51388	-0:9	1:3	A3	8.90	8.70	140	34	18	1923 M	254	7.14
1160	3.7C	320	243	21:50:12	42:24:34	51388	-0:2	0:37	A3	8.90	8.70	71	15	14	583 M	295	6.98
1161	3.0C	289	341	21:50:19	40:10:0	51391?	0:33	8:45	0	9.00	9.00	187	14	119	6357	340	7.77
1162	10.0C	313	191	21:51:43	43:14:46	51407	-0:4	0:53	0	9.00	9.00	66	20	19	659 L	110	8.05
1163	10.0C	254	493	21:51:49	37:9:14	71809	-0:4	-1:29	A2	8.70	9.20	65	14	18	449	93	8.24
1164	10.0C	274	371	21:52:5	39:38:26	71814	-0:5	-0:41	A5	9.10	9.40	68	19	18	633 M	101	8.15
1165	10.0C	331	82	21:52:17	45:18:23	51417	0:5	0:28	A0	8.10	8.20	41	6	18	127 L	93	8.24
1166	3.0C	200	696	21:52:30	32:57:23	71822	0:4	-1:21	B9	9.00	8.90	142	11	109	297	205	8.32
1167	10.0C	205	695	21:52:30	32:57:23	71822	0:8	-0:59	B9	9.00	8.90	83	31	17	1161	188	7.47
1168	3.7C	207	701	21:52:30	32:57:23	71822	0:8	-0:19	B9	9.00	8.90	46	9	15	221	195	7.43
1169	1.0L	272	368	21:52:40	39:41:53	71828	-0:10	-0:45	B9	9.00	8.00	84	4	57	99	434	7.50
1170	3.0C	267	369	21:52:40	39:41:53	71828	-0:5	-1:19	B9	9.00	8.00	182	16	119	570 M	310	7.87
1171	3.0C	213	370	21:52:40	39:41:53	71828	-0:9	-3:20	B9	9.00	8.00	68	15	13	513 M	340	6.82
1172	10.0C	270	367	21:52:40	39:41:53	71828	-0:9	-0:5	B9	9.00	8.00	155	35	18	2066 M	304	6.94
1173	3.7C	272	374	21:52:40	39:41:53	71828	-0:6	-1:53	B9	9.00	8.00	76	14	18	548 M	278	7.04
1174	10.0C	216	602	21:53:25	34:44:22	71844?	0:5	4:31	A2	7.05	0.00	64	18	17	555 L	115	8.00
1175	10.0C	216	602	21:53:28	34:50:29	71846?	0:3	-1:36	A0	7.70	8.20	64	18	17	555 L	115	8.00
1176	3.0C	314	113	21:53:30	44:42:38	51447	0:5	0:33	A0	7.70	7.40	146	21	111	565 L	290	7.94
1177	3.0C	258	114	21:53:30	44:42:38	51447	0:1	-2:17		7.70	7.40	49	18	13	495 L	351	6.79
1178	10.0C	315	111	21:53:30	44:42:38	51447	-0:3	1:25		7.70	7.40	120	52	18	2673	357	6.77
1179	3.7C	317	117	21:53:30	44:42:38	51447	0:5	0:57		7.70	7.40	61	24	16	760	368	6.73
1180	3.0C	291	196	21:54:2	43:5:5	51455	-0:3	1:11	A	8.90	8.50	136	5	113	104	132	8.80
1181	10.0C	292	194	21:54:2	43:5:5	51455	-0:6	0:53	A	8.90	8.50	84	22	19	919	151	7.71
1182	3.7C	295	201	21:54:2	43:5:5	51455	-0:6	0:35	A	8.90	8.50	46	8	16	198	187	7.47
1183	3.0C	293	184	21:54:36	43:41:17	51466	0:1	0:20		9.20	9.50	139	8	112	192	175	8.50
1184	3.0C	237	185	21:54:36	43:41:17	51466	-0:1	-2:22		9.20	9.50	37	6	14	127	200	7.40
1185	10.0C	294	162	21:54:36	43:41:17	51466	-0:4	1:20		9.20	9.50	85	34	14	1287	196	7.42
1186	3.7C	297	169	21:54:36	43:41:17	51466	-0:10	1:16		9.20	9.50	44	9	14	230	200	7.40
1187	10.0C	276	258	21:55:3	42:22:39	51473	-0:12	2:6	A0	7.80	7.70	68	17	19	578 L	109	8.06
1188	3.7C	278	255	21:55:3	42:22:39	51473	-0:6	0:18	A0	7.80	7.70	38	4	15	85 L	134	7.84
1189	10.0C	269	254	21:55:10	41:51:33	51479	-0:9	1:8		8.90	9.00	47	6	18	149 L	52	8.87
1190	1.0L	276	195	21:55:59	42:54:38	51489?	0:3	6:12	A2	8.10	7.60	85	11	53	289	670	7.03
1191	3.0C	272	196	21:55:59	42:54:38	51489?	0:5	5:42	A2	8.10	7.60	189	38	113	1509 M	750	6.91
1192	3.0C	216	197	21:55:59	42:54:38	51489?	0:4	1:56	A2	8.10	7.60	88	33	14	1309 M	680	6.08
1193	10.0C	273	194	21:55:59	42:54:38	51489?	0:3	6:52	A2	8.10	7.60	221	66	19	4786 M	600	6.20
1194	3.7C	276	201	21:55:59	42:54:38	51489?	-0:3	6:45	A2	8.10	7.60	110	37	15	1756 M	685	6.06
1195	.25L	225	420	21:56:0	38:41:15	71890?	-0:21	-6:37	B8	7.90	7.40	51	5	23	119	2230	5.72
1196	1.0L	231	411	21:56:0	38:41:15	71890	-0:6	-1:17	B8	7.90	7.40	162	30	57	1458 M	1850	5.92
1197	3.0C	227	412	21:56:0	38:41:15	71890	-0:9	-1:45	B8	7.90	7.40	311	50	117	3423 M	2100	5.78
1198	3.7C	173	413	21:56:0	38:41:15	71890	-0:13	-2:35	B8	7.90	7.40	181	41	14	2587 M	1100	5.94
1199	10.0C	230	410	21:56:0	38:41:15	71890	-0:10	-0:7	B8	7.90	7.40	333	77	18	7772 M	1205	5.94
1200	3.7C	232	417	21:56:0	38:41:15	71890	-0:7	-2:2	B8	7.90	7.40	213	44	16	3179 M	1050	5.99



NRL REPORT 8487

CYGNUS, R.A. 21:24 DEC. +37:30 (6 FRAMES)													
OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAO NO.	A R.A.	A DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS
1201	1.0L	276	195	21:56:9	42:59:58	51496/	-0:6	0:51	89	7.38	.00	85	11
1202	3.0C	272	196	21:56:9	42:59:58	51496/	-0:4	0:22	89	7.38	.00	189	38
1203	3.0C	276	197	21:56:9	42:59:58	51496/	-0:5	-3:24	89	7.38	.00	88	33
1204	10.0C	273	194	21:56:9	42:59:58	51496/	-0:6	1:31	89	7.38	.00	221	66
1205	3.7C	276	201	21:56:9	42:59:58	51496/	-0:12	1:25	89	7.38	.00	110	37
1206	3.0C	145	724	21:56:47	32:14:36	71905	0:19	-3:18	89	7.50	7.60	142	14
1207	3.0C	95	724	21:56:47	32:14:36	71905	0:1	-3:52	89	7.50	7.60	47	12
1208	10.0C	151	721	21:56:47	32:14:36	71905	0:20	-0:55	89	7.50	7.60	104	17
1209	3.7C	153	727	21:56:47	32:14:36	71905	0:18	-1:37	89	7.50	7.60	54	19
1210	1.0L	253	271	21:56:52	41:27:22	51507	-0:14	1:56	89	7.70	7.30	85	11
1211	3.0L	248	273	21:56:52	41:27:22	51507	-0:9	0:3	89	7.70	7.30	182	24
1212	3.0C	194	274	21:56:52	41:27:22	51507	-0:19	-3:8	89	7.70	7.30	81	23
1213	10.0C	250	271	21:56:52	41:27:22	51507	-0:12	1:26	89	7.70	7.30	194	46
1214	3.7C	253	277	21:56:52	41:27:22	51507	-0:13	1:1	89	7.70	7.30	99	26
1215	1.0L	163	665	21:57:0	33:23:27	71910	0:8	-1:37	83	7.80	7.90	110	29
1216	3.0L	158	666	21:57:0	33:23:27	71910	0:5	-2:18	83	7.80	7.90	241	54
1217	3.0C	107	668	21:57:0	33:23:27	71910	-0:12	-4:32	83	7.80	7.90	111	36
1218	10.0C	164	665	21:57:0	33:23:27	71910	0:2	-1:8	83	7.80	7.90	248	83
1219	3.7C	166	671	21:57:0	33:23:27	71910	0:1	-1:51	83	7.80	7.90	132	46
1220	10.0C	246	280	21:57:3	41:16:31	51511	-0:9	0:18	89	8.90	9.40	53	14
1221	3.0L	248	258	21:57:10	41:43:9	51513	-0:4	0:55	89	8.40	8.40	135	112
1222	10.0C	250	257	21:57:10	41:43:9	51513	-0:8	1:21	89	8.40	8.40	82	24
1223	3.7C	253	264	21:57:10	41:43:9	51513	-0:10	-0:17	89	8.40	8.40	45	8
1224	10.0C	253	214	21:57:48	42:32:24	51526	-0:3	1:17	89	8.70	8.80	43	6
1225	10.0C	155	644	21:58:16	33:45:58	71933	0:6	-1:19	A0	8.60	8.60	42	17
1226	3.0L	170	526	21:58:45	36:14:59	71942	0:14	-6:14	A0	9.10	9.50	162	23
1227	3.0C	117	528	21:58:45	36:14:59	71942	-0:5	-8:55	A0	9.10	9.50	54	12
1228	10.0C	174	525	21:58:45	36:14:59	71942	0:14	-5:15	A0	9.10	9.50	123	39
1229	3.7C	176	531	21:58:45	36:14:59	71942	0:15	-6:2	A0	9.10	9.50	66	17
1230	10.0C	165	581	21:58:48	33:33:37	71945	-0:5	-3:25	A0	8.30	8.50	52	10
1231	3.0L	202	390	21:59:0	39:0:17	71949	-0:7	-2:24	A0	7.08	.00	162	10
1232	3.0C	149	391	21:59:0	39:0:17	71949	-0:25	-4:31	A0	7.08	.00	62	16
1233	10.0C	205	388	21:59:0	39:0:17	71949	-0:8	-0:25	A0	7.08	.00	145	41
1234	3.7C	208	395	21:59:0	39:0:17	71949	-0:12	-2:9	A0	7.08	.00	76	18
1235	10.0C	224	297	21:59:3	40:50:15	51555	-0:14	0:37	A0	8.40	8.50	63	17
1236	10.0C	135	683	21:59:8	32:55:42	71950	0:17	-1:42	89	8.00	8.00	46	10
1237	3.0L	170	526	21:59:10	36:11:29	71952	-0:10	-2:45	89	8.00	8.00	162	23
1238	3.0C	117	528	21:59:10	36:11:29	71952	-0:29	-5:26	89	8.00	8.00	54	12
1239	10.0C	174	525	21:59:10	36:11:29	71952	-0:11	-1:45	89	8.00	8.00	123	39
1240	3.7C	176	531	21:59:10	36:11:29	71952	-0:9	-2:32	89	8.00	8.00	66	17
1241	1.0L	232	206	22:0:40	42:34:20	51589	-0:7	2:7	89	7.06	.00	80	10
1242	3.0L	228	207	22:0:40	42:34:20	51589	-0:5	1:26	89	7.06	.00	180	38
1243	3.0C	173	209	22:0:40	42:34:20	51589	-0:22	-2:40	89	7.06	.00	88	37
1244	10.0C	229	206	22:0:40	42:34:20	51589	-0:7	1:54	89	7.06	.00	219	66
1245	3.7C	232	212	22:0:40	42:34:20	51589	-0:14	1:41	89	7.06	.00	112	40
1246	3.0L	189	370	22:0:43	39:11:7	71979	-0:4	6:44	A0	8.30	8.10	139	7
1247	3.0C	135	371	22:0:43	39:11:7	71979	-0:18	4:30	A0	8.30	8.10	40	14
1248	10.0C	192	369	22:0:43	39:11:7	71979	-0:8	7:43	A0	8.30	8.10	91	29
1249	3.7C	195	375	22:0:43	39:11:7	71979	-0:11	7:10	A0	8.30	8.10	40	15
1250	3.0L	189	370	22:0:47	39:19:13	71981	-0:8	-1:23	A0	8.00	8.10	139	7

DENSITY VOLUME CORR. V/E UV MAG.

289 670 7.03  
1509 750 6.91  
1309 680 6.06  
496 600 6.20  
1756 685 6.06  
397 L 250 6.25  
309 L 280 7.03  
2208 316 6.90  
542 L 290 6.99  
288 680 7.01  
979 470 7.42  
923 520 6.36  
3354 469 6.47  
1174 490 6.42  
1021 1430 6.20  
3100 1670 6.03  
1776 850 5.82  
6678 985 5.66  
2316 890 5.77  
370 82 8.37  
88 L 120 8.91  
926 148 7.73  
197 L 195 7.48  
136 78 8.43  
91 L 70 8.55  
726 M 360 7.71  
358 M 287 7.01  
2005 M 298 6.96  
553 M 288 7.00  
282 L 82 8.37  
299 L 220 8.25  
498 L 317 6.90  
23540 314 6.91  
659 308 6.93  
535 94 8.22  
726 L 106 8.09  
726 360 7.71  
358 292 6.99  
2005 298 6.96  
553 288 7.00  
244 L 645 7.07  
1594 775 6.87  
1522 770 5.93  
5223 589 6.22  
1927 745 5.97  
161 155 8.63  
99 L 178 7.53  
1206 186 7.48  
269 211 7.34  
161 155 8.63

## PAGE, CARRUTHERS, AND HECKATHORN

CYGNUS. R.A. 21:24 DEC. +37:30 (6 FRAMES)																	
OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAD NO.	$\Delta$ R.A.	$\Delta$ DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	BG	DENSITY VOLUME	CORR. V/E	UV MAG.
1251	3.0C	135	371	22: 0:47	39:19:13	71981/	-0:22	-3:37	A0	8.00	8.10	40	4	14	99 L	178	7.53
1252	10.0C	192	369	22: 0:47	39:19:13	71981/	-0:12	-0:24	A0	8.00	8.10	91	29	17	1266	186	7.34
1253	3.7C	195	375	22: 0:47	39:19:13	71981/	-0:15	-0:57	A0	8.00	8.10	49	10	15	269	211	7.34
1254	1.0L	251	111	22: 0:55	44:24:29	51595/	0: 5	1: 8	A0	5.52	.00	77	12	51	276 L	1403	6.22
1255	3.0C	247	112	22: 0:55	44:24:29	51595	0: 8	0:26	A0	5.52	.00	176	52	108	2080	1221	6.38
1256	3.0C	192	113	22: 0:55	44:24:29	51595	-0: 5	-2:51	A0	5.52	.00	89	43	17	1737	865	5.80
1257	10.0C	248	110	22: 0:55	44:24:29	51595	0: 8	1:53	A0	5.52	.00	221	121	18	8247	1092	5.55
1258	3.7C	251	117	22: 0:55	44:24:29	51595	0: 3	1:43	A0	5.52	.00	106	57	20	2442	940	5.71
1259	10.0C	235	114	22: 2: 4	44: 8:25	51614	-0: 4	1:39	A2	6.57	.00	54	19	18	538 L	129	7.88
1260	3.0L	128	518	22: 3:24	36: 8:28	72016	0:15	-2:28	B9	7.60	7.90	127	3	105	62 L	92	9.20
1261	10.0C	131	517	22: 3:24	36: 8:28	72016	-0:11	-1:13	B9	7.60	7.90	72	28	16	997	184	7.49
1262	3.7C	134	523	22: 3:24	36: 8:28	72016	-0:15	-1:52	B9	7.60	7.90	40	6	15	137 L	165	7.61
1263	1.0L	188	273	22: 3:37	41: 6:30	51636	-0:10	0:26	B9	7.60	7.50	83	10	53	252	645	7.07
1264	3.0L	184	274	22: 3:37	41: 6:30	51636	-0:10	0:34	B9	7.60	7.50	184	34	113	1351 M	750	7.06
1265	3.0C	130	276	22: 3:37	41: 6:30	51636	-0:24	-3: 6	B9	7.60	7.50	184	34	113	1351 M	715	6.01
1266	10.0C	185	273	22: 3:37	41: 6:30	51636	-0:14	1:40	B9	7.60	7.50	200	68	18	4886 M	600	6.20
1267	3.7C	189	279	22: 3:37	41: 6:30	51636	-0:15	1: 5	B9	7.60	7.50	105	39	14	1816 M	705	6.03
1268	10.0C	162	357	22: 3:37	41: 6:30	51636	-0:17	0:42	A0	8.40	8.50	50	11	17	290 L	83	8.36
1269	10.0C	162	357	22: 4: 8	39:23:12	72031/	-0:28	-3:35	A0	8.40	8.50	50	11	17	290 L	83	8.36
1270	3.0L	184	187	22: 4:18	39:27:20	72031/	0: 4	1:45	B9	7.60	7.60	127	6	105	128 L	145	8.70
1271	3.0C	130	190	22: 5:44	42:42:28	51671	-0:22	-2:53	B9	7.60	7.60	100	10	13	238 L	252	7.15
1272	10.0C	185	186	22: 5:44	42:42:28	51671	-0: 5	3: 5	B9	7.60	7.60	400	53	20	2244	294	6.98
1273	3.7C	189	193	22: 5:44	42:42:28	51671	-0: 6	1:17	B9	7.60	7.60	50	17	15	464	270	7.07
1274	10.0C	138	364	22: 6:23	39: 7:34	72055	-0:11	1:21	A0	7.50	7.90	45	8	17	191 L	71	8.53
1275	10.0C	100	293	22:11:50	40:14:54	51784	-2: 9	3:48	A0	8.90	9.00	59	26	18	781	161	7.64

NRL REPORT 8487

CAPRICORN, R.A. 21:14 DEC. -14:30 (5 FRAMES)

OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAO NO.	A R.A.	A DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	BG	DENSITY VOLUME	CORR. V/E	UV MAG.
1	1.0L	939	307	20:36:28	-15:7:53	163771	-0:15	1:51	85	5.30	.00	335	129	96	10987 H	30300	2.87
2	3.0L	938	310	20:36:28	-15:7:53	163771	-0:12	1:55	85	5.30	.00	389	171	203	16660	22600	3.19
3	3.0C	917	310	20:36:28	-15:7:53	163771	-0:16	1:55	85	5.30	.00	407	154	20	19653	10790	3.05
4	10.0C	904	303	20:36:28	-15:7:53	163771	-0:15	1:14	85	5.30	.00	449	305	18	44861	8233	3.34
5	30.0C	913	300	20:36:28	-15:7:53	163771	0:1	2:21	85	5.30	.00	469	430	22	70100 L	4489E	4.01
6	1.0L	858	285	20:40:28	-14:3:2							152	8	101	255?	545	7.26
7	3.0L	797	198	20:41:42	-11:51:6							261	9	2:3	290?	353	7.73
8	1.0L	715	119	20:44:58	-9:40:48	144810	0:3	-2:7	A0	3.83	.00	223	72	89	3991	6329	4.58
9	3.0L	716	122	20:44:58	-9:40:48	144810	-0:4	-1:22	A0	3.83	.00	357	116	199	8266	7920	4.34
10	3.0C	703	122	20:44:58	-9:40:48	144810	-0:0	-0:8	A0	3.83	.00	328	84	21	8530	3940	4.15
11	10.0C	699	116	20:44:58	-9:40:58	144810	0:5	-1:22	A0	3.83	.00	427	163	22	21736 L	3640	4.23
12	30.0C	703	111	20:44:58	-9:40:48	144810	-0:4	-0:38	A0	3.83	.00	467	330	24	54376 L	3070	4.42
13	1.0L	758	262	20:46:51	-12:42:32							156	6	112	185?	500	7.35
14	1.0L	896	588	20:49:24	-19:49:55	163943	0:3	-0:59	A0	7.18	.00	127	4	103	88 L	359	7.71
15	3.0L	896	592	20:49:24	-19:49:55	163943	0:10	-1:32	A0	7.18	.00	263	13	221	408	462	7.44
16	3.0C	895	592	20:49:24	-19:49:55	163943	0:4	-2:17	A0	7.18	.00	86	30	23	1108 H	575	6.25
17	10.0C	874	584	20:49:24	-19:49:55	163943	0:2	-3:8	A0	7.18	.00	169	70	19	4737 H	650	6.11
18	30.0C	885	582	20:49:24	-19:49:55	163943	0:16	-3:25	A0	7.18	.00	213	167	20	14741 H	656	6.10
19	3.0L	888	592	20:51:41	-19:36:3							230	5	204	118?	200	8.35
20	1.0L	559	42	20:53:1	-6:53:27	144949	-0:12	2:6	A0	9.30	.00	153	10	84	409?H	685	7.01
21	10.0C	633	388	20:54:50	-14:35:54	NO*	0:5	0:23				57	5	19	114	57	8.77
22	30.0C	707	384	20:54:50	-14:35:54	NO*	-0:6	-0:23				56	28	24	683	42	9.10
23	3.0C	555	111	20:54:59	-7:54:25	144978	0:3	-3:5	A0	7.50	.00	50	9	18	235 L	244	7.18
24	10.0C	541	104	20:54:59	-7:54:25	144978	-0:1	-0:31	A0	7.50	.00	104	35	19	1594	230	7.25
25	30.0C	554	100	20:54:59	-7:54:25	144978	-0:1	-1:9	A0	7.50	.00	119	97	20	5300	262	7.11
26	3.0C	536	74	20:55:10	-7:4:52	144981	-0:8	-0:58	A0	8.70	.00	40	5	16	112 L	190	7.46
27	10.0C	522	68	20:55:10	-7:4:52	144981	-0:8	-0:34	A0	8.70	.00	81	37	18	1414	216	7.32
28	30.0C	532	65	20:55:10	-7:4:52	144981	0:5	0:44	A0	8.70	.00	98	93	20	4387	210	7.35
29	3.0C	592	231	20:56:35	-10:26:57	164039	0:6	-0:58	A0	8.50	.00	50	6	17	160	171	7.57
30	10.0C	578	225	20:56:35	-10:26:57	164039	0:10	-0:19	A0	8.50	.00	79	20	18	762	132	7.85
31	30.0C	594	220	20:56:35	-10:26:57	164039	-0:10	-2:25	A0	8.50	.00	93	59	20	2715	122	7.94
32	1.0L	807	602	20:56:45	-19:13:48	164043	0:3	-0:51	A0	6.23	.00	179	27	122	862	1350	6.27
33	3.0L	807	605	20:56:45	-19:13:48	164043	0:7	-0:19	A0	6.23	.00	341	41	259	1964	1950	5.87
34	3.0C	796	605	20:56:45	-19:13:48	164043	0:2	-0:50	A0	6.23	.00	180	41	21	2707 H	1110	5.53
35	10.0C	794	598	20:56:45	-19:13:48	164043	0:7	-1:35	A0	6.23	.00	335	82	21	8185	1110	5.53
36	30.0C	796	595	20:56:45	-19:13:48	164043	0:13	-1:22	A0	6.23	.00	384	190	22	24146	1370	5.30
37	1.0L	619	364	21:0:52	-13:2:54	164103	0:5	-1:6	A0	8.10	.00	197	4	177	82	425	7.53
38	3.0C	607	367	21:0:52	-13:2:54	164103	0:7	1:10	A0	8.10	.00	71	10	19	333	268	7.08
39	10.0C	594	361	21:0:52	-13:2:54	164103	0:9	1:31	A0	8.10	.00	120	28	20	1482	206	7.37
40	30.0C	603	358	21:0:52	-13:2:54	164103	0:23	2:56	A0	8.10	.00	138	79	26	4793	227	7.26
41	1.0L	578	306	21:1:30	-11:34	N7009	0:18	3:15	PLAN	7.5		169	4	156	40	168	8.54
42	10.0C	594	303	21:1:30	-11:34	N7009	0:4	2:26	PLAN	7.5		76	18	20	649	115	8.00
43	30.0C	563	300	21:1:30	-11:34	N7009	0:20	2:47	PLAN	7.5		89	52	26	2102	101	8.15
44	10.0C	796	662	21:1:33	-20:3:14	189986	0:9	-0:46	A3	4.93	.00	60	18	19	530 L	105	8.10
45	30.0C	769	659	21:1:33	-20:3:14	189986	0:6	-1:48	A3	4.93	.00	73	55	21	2028 L	99	8.17
46	3.0L	460	108	21:2:28	-6:41:41							237	80	193	2393?	2180	5.74
47	30.0C	709	681	21:2:37	-20:27:35							51	11	20	268	25	9.67
48	1.0L	701	561	21:3:8	-17:25:57	164132	-0:5	-0:15	A0	4.19	.00	318	22	173	1583 L	3420	5.25
49	3.0C	689	564	21:3:8	-17:25:57	164132	0:2	1:24	A0	4.19	.00	306	53	25	5226 L	2250	4.76
50	10.0C	678	557	21:3:8	-17:25:57	164132	-0:3	1:38	A0	4.19	.00	399	73	31?	12750 L	1990	4.89

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OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAO NO.	A R.A.	A DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	BG	DENSITY VOLUME	CORR. V/E	UV MAG.
51	30.0C	691	553	21: 3: 8	-17:25:57	164132	-0: 6	0:32	A0	4.19	.00	458	237	287	42654 L	2450	4.67
52	1.0L	689	581	21: 4:56	-17:39:26	164156	-0: 7	0:14	A0	6.03	.00	230	24	170	1010	2160	5.75
53	3.0C	677	585	21: 4:56	-17:39:26	164156	0: 2	0:57	A0	6.03	.00	173	34	22	2034	905	5.75
54	10.0C	665	578	21: 4:56	-17:39:26	164156	0: 3	1:57	A0	6.03	.00	304	77	24	6626	930	5.72
55	30.0C	678	574	21: 4:56	-17:39:26	164156	-0: 1	0:52	A0	6.03	.00	356	177	26	20634	1170	5.47
56	1.0L	769	751	21: 5:41	-21:23:44	190050	0: 5	-1:43	A0	5.27	.00	163	23	104	898	1986	5.85
57	3.0L	769	754	21: 5:41	-21:23:44	190050	0:10	-0:58	A0	5.27	.00	329	42	236	2183	2080	5.80
58	3.0C	758	755	21: 5:41	-21:23:44	190050	0: 9	-2:21	A0	5.27	.00	188	49	23	3252	1370	5.30
59	10.0C	747	747	21: 5:41	-21:23:44	190050	0:14	-1:30	A0	5.27	.00	341	95	21	9889	1460	5.23
60	30.0C	759	744	21: 5:41	-21:23:44	190050	0:13	-0:46	A0	5.27	.00	409	212	22	29375	1650	5.10
61	1.0L	393	96	21: 7:10	-5:53:44							156	14	92	507?	775	6.87
62	3.0C	728	834	21:11: 9	-22:25: 9	190147	0:13	-2:28	A0	6.88	.00	49	11	21	261 L	260	7.11
63	10.0C	718	827	21:11: 9	-22:25: 9	190147	0:10	-2:34	A0	6.88	.00	88	42	18	1689 L	250	7.16
64	30.0C	727	825	21:11: 9	-22:25: 9	190147?	0:31	-3: 2	A0	6.88	.00	110	113	20	5788 L	300	6.96
65	1.0L	458	341	21:11:34	-10:48:46	164240	0: 8	-0:41	B9	6.49	.00	231	38	157	1311	2520	5.59
66	3.0L	458	345	21:11:34	-10:48:46	164240	0:11	-0:54	B9	6.49	.00	385	147	340	2569	3300	5.29
67	3.0C	446	345	21:11:34	-10:48:46	164240	0: 9	1:26	B9	6.49	.00	137	26	20	1346	640	6.13
68	10.0C	434	339	21:11:34	-10:48:46	164240	0: 4	1:48	B9	6.49	.00	244	61	22	4730	630	6.15
69	30.0C	448	335	21:11:34	-10:48:46	164240	0: 4	1:48	B9	6.49	.00	287	146	27	14027	770	5.93
70	1.0L	678	739	21:12:11	-20:16:15	164240	-0: 5	0: 6	B9	6.49	.00	210	13	124	608?	1010	6.58
71	1.0L	743	870	21:12:29	-23:10:56							144	23	91	830?	1120	6.47
72	3.0C	390	299	21:13:48	-9:22: 2	145256	0: 4	0:12	A0	7.34	.00	52	6	18	161 L	141	7.78
73	10.0C	376	294	21:13:48	-9:22: 2	145256	0: 9	0:55	A0	7.34	.00	92	21	18	894 L	147	7.74
74	30.0C	392	289	21:13:48	-9:22: 2	145256	-0:14	0: 4	A0	7.34	.00	106	62	22	3043 L	137	7.81
75	10.0C	395	338	21:14:16	-10:20:40	164275	0: 7	1:35	AC	6.85	.00	58	11	19	310 L	79	8.41
76	30.0C	405	335	21:14:16	-10:20:40	164275	0:18	1:29	A0	6.85	.00	70	36	22	1215 L	63	8.66
77	1.0L	357	223	21:14:18	-7:37:21	NO	-0: 1	-0:48				135	4	96	130?	422	7.54
78	3.0L	356	226	21:14:18	-7:37:21	NO	-0: 2	0:48				271	7	207	299?	332	7.80
79	3.0L	402	320	21:14:46	-9:44:32							299	26	270	621?	780	6.87
80	1.0L	602	668	21:15: 9	-18:11:44	164286	-0:13	0:11	B8	5.39	.00	368	37	185	3013	6720	4.52
81	3.0C	591	672	21:15: 9	-18:11:44	164286	-0: 8	0:43	B8	5.39	.00	330	97	25	8348	4060	4.12
82	10.0C	579	665	21:15: 9	-18:11:44	164286	-0: 6	2:24	B8	5.39	.00	418	214	24	23317	4060	4.12
83	30.0C	593	661	21:15: 9	-18:11:44	164286	-0:14	0:43	B8	5.39	.00	435	444	30	62071	3780	4.19
84	1.0L	277	99	21:15:33	-4:43:49	145278	0: 4	-0: 4	B8	5.68	.00	258	114	82	7381 H	15100	3.63
85	3.0L	277	102	21:15:33	-4:43:49	145278	-0: 2	0:19	B8	5.68	.00	388	178	170	15535 H	22200	3.21
86	3.0C	265	103	21:15:33	-4:43:49	145278	-0: 2	0:25	B8	5.68	.00	385	123	19	13778 H	7100	3.51
87	10.0C	251	99	21:15:33	-4:43:49	145278	-0: 2	0:25	B8	5.68	.00	440	227	21	33913 H	5700	3.75
88	30.0C	261	96	21:15:33	-4:43:49	145278	0: 3	-1: 9	B8	5.68	.00	447	461	19	83283 H	5693	3.75
89	1.0L	671	818	21:15:56	-21:32:32		0:14	0:35	B8	5.68	.00	132	4	108	89?	355	7.72
90	3.0L	682	873	21:17:15	-22:32:25							255	8	216	240?	336	7.78
91	3.0C	711	952	21:17:22	-24:19:32							59	10	22	294?	256	7.13
92	3.0C	459	500	21:17:24	-13:42:52	164315	-0: 5	2:40	B9	7.04	.00	71	7	31	204?L	212	7.34
93	1.0L	334	265	21:17:32	-8: 7: 6							135	5	102	141?	520	7.31
94	3.0L	404	390	21:17:33	-11: 0:54	164320	-0: 3	0:51	A3	8.80	.00	366	6	344	120?	300	7.91
95	10.0C	583	753	21:18:34	-19:44:27	164327	-0: 5	2:43	A0	8.70	.00	69	17	20	577	109	8.06
96	30.0C	595	750	21:18:34	-19:44:27	164327	-0: 1	1:19	A0	9.70	.00	85	54	24	2143	104	8.11
97	30.0C	230	144	21:19:42	-5:12:39							53	8	16	220?	24	9.71
98	1.0L	400	464	21:20:58	-12:16:30	164359	0: 5	-3: 4	B8	8.30	.00	275	25	201	898 H	2310	5.68
99	3.0C	389	468	21:20:58	-12:16:30	164359	0: 4	-1:10	B8	8.30	.00	136	28	21	1507 H	692	6.05
100	10.0C	377	462	21:20:58	-12:16:30	164359	0: 1	-0: 7	B8	8.30	.00	254	62	24	5035 H	675	6.07

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OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAO NO.	Δ R.A.	Δ DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	BG	DENSITY VOLUME	CORR. V/E	UV MAG.
101	30.0C	390	458	21:20:58	-12:16:30	164359	-0:3	-1:4	88	8.30	.00	304	157	34	15527 H	910	5.75
102	30.0C	617	854	21:21:15	-21:43:53	164366	-0:1	2:9	A0	8.80	.00	57	9	21	236?	24	9.71
103	10.0C	470	629	21:21:34	-16:16:39	164366	-0:21	0:12	A0	8.80	.00	73	16	26	528	100	8.16
104	30.0C	486	624	21:21:34	-16:16:39	164366	-0:21	0:12	A0	8.80	.00	96	47	42	1820	83	8.36
105	30.0C	374	453	21:21:59	-11:59:41	164372	-0:9	-0:45	A0	9.40	.00	54	14	31	309 L	26	9.63
106	30.0C	432	558	21:22:14	-14:30:13	164378	-0:1	-2:46	A0	6.86	.00	115	26	59	955	50	8.91
107	1.0L	439	566	21:22:40	-14:29:36	164378	-0:1	-2:46	A0	6.86	.00	279	16	258	311	1419	6.21
108	10.0C	415	564	21:22:40	-14:29:36	164378	-0:1	-2:46	A0	6.86	.00	77	18	27	610 L	110	8.05
109	30.0C	427	560	21:22:40	-14:29:36	164378	-0:1	-2:46	A0	6.86	.00	286	22	206	1621 L	96	8.20
110	1.0L	402	551	21:24:39	-13:48:19	164400	-0:2	-3:19	B9	6.80	.00	108	42	46	933 H	2400	5.64
111	3.0C	391	554	21:24:39	-13:48:19	164400	-0:2	-3:19	B9	6.80	.00	155	34	23	1921	870	5.80
112	10.0C	379	549	21:24:39	-13:48:19	164400	-0:0	0:6	B9	6.80	.00	291	71	24	6113	840	5.83
113	30.0C	394	544	21:24:39	-13:48:19	164400	-0:0	0:6	B9	6.80	.00	349	181	37	18563	1130	5.51
114	30.0C	593	960	21:27:21	-23:18:19	164400	-0:16	-1:8	B9	6.80	.00	46	4	19	104?	17	10.09
115	10.0C	493	809	21:27:33	-19:35:40	NO	-0:3	0:20				48	5	23	111	54	8.83
116	30.0C	504	806	21:27:33	-19:35:40	NO	0:4	-0:20				57	27	25	704	43	9.08
117	1.0L	445	751	21:30:54	-9:52:59	145483?	0:5	-5:27	B9	8.10	.00	182	11	132	358?	750	6.91
118	1.0L	242	429	21:30:54	-9:52:59	145483	0:0	-2:3	B9	8.10	.00	149	9	118	223 H	560	7.23
119	3.0C	242	431	21:30:54	-9:52:59	145483	0:3	-4:13	B9	8.10	.00	283	26	224	922 H	885	6.73
120	3.0C	230	433	21:30:54	-9:52:59	145483	-0:0	-3:39	B9	8.10	.00	92	18	19	735 H	415	6.60
121	10.0C	428	428	21:30:54	-9:52:59	145483	-0:0	-3:39	B9	8.10	.00	177	48	18	3025 H	382	6.69
122	30.0C	233	424	21:31:27	-22:51:31	145483	-0:11	-4:2	B9	8.10	.00	206	113	22	8951 H	448	6.52
123	3.0C	533	945	21:31:27	-22:51:31	NO*	0:1	-1:9				243	12	204	339?	384	7.64
124	3.0C	439	853	21:33:44	-19:29:41	NO*	-0:1	-1:8				88	28	25	9300	530	6.34
125	10.0C	429	846	21:33:44	-19:29:41	164520	-0:6	2:3	B5	4.72	.00	432	175	105	37060	464	6.48
126	1.0L	448	857	21:34:17	-19:41:27	164520	-0:10	3:48	B5	4.72	.00	392	316	230	185400H	38240	2.62
127	3.0C	449	859	21:34:17	-19:41:27	164520	-0:3	4:41	B5	4.72	.00	434	251	26	235400	38400	2.61
128	3.0C	437	860	21:34:17	-19:41:27	164520?	-0:2	5:57	B5	4.72	.00	457	410	29	307490	18000	2.49
129	10.0C	426	854	21:34:17	-19:41:27	164520?	-0:2	5:57	B5	4.72	.00	500	773	36	647440	11600	2.97
130	30.0C	440	851	21:34:50	-19:41:27	164528	-0:7	1:45	B9	7.30	.00	153	22	104	1420690L	12300	2.91
131	1.0L	437	851	21:34:50	-19:41:27	164528	-0:11	3:30	B9	7.30	.00	311	41	228	7110H	1020	6.57
132	3.0C	426	853	21:34:50	-19:41:27	164528	-0:11	3:30	B9	7.30	.00	142	45	25	17170H	1600	6.08
133	3.0C	426	855	21:34:50	-19:41:27	164528	-0:9	3:43	B9	7.30	.00	142	45	25	18720H	860	5.81
134	10.0C	416	849	21:34:50	-19:41:27	164528	-0:12	4:20	B9	7.30	.00	249	98	27	62000H	1250	5.40
135	30.0C	432	845	21:34:50	-19:41:27	164528?	-0:22	3:45	B9	7.30	.00	368	125	36	182010H	904	5.75
136	30.0C	426	846	21:34:55	-19:42:12	145541	-0:4	-3:32	A0	8.70	.00	351	98	36	129440	546	6.30
137	3.0C	174	417	21:35:14	-8:55:18	145541	0:0	-3:53	A0	8.70	.00	225	19	188	512 H	465	7.43
138	3.0C	161	419	21:35:14	-8:55:18	145541	0:0	-3:53	A0	8.70	.00	55	10	18	286 H	262	7.11
139	10.0C	149	414	21:35:14	-8:55:18	145541	-0:2	-4:9	A0	8.70	.00	102	37	17	1681 H	245	7.18
140	30.0C	162	411	21:35:14	-8:55:18	145541	-0:6	-4:48	A0	8.70	.00	134	100	17	5975 H	280	7.03
141	3.0C	293	623	21:35:32	-13:45:33	164539	-0:1	-2:6	A0	8.40	.00	308	13	267	399	528	7.29
142	3.0C	281	624	21:35:32	-13:45:33	164539	0:3	-1:14	A0	8.40	.00	65	11	21	336	270	7.07
143	10.0C	270	619	21:35:32	-13:45:33	164539	0:0	-0:54	A0	8.40	.00	115	36	19	1679	238	7.21
144	30.0C	285	615	21:35:32	-13:45:33	164539	-0:10	-1:22	A0	8.40	.00	135	93	23	5614	280	7.03
145	1.0L	369	802	21:37:47	-17:49:39	164566	-0:6	2:47	B3	9.30	.00	135	9	103	234	538	7.27
146	3.0C	370	805	21:37:47	-17:49:39	164566	-0:8	3:32	B3	9.30	.00	289	18	234	706 H	715	6.96
147	3.0C	358	806	21:37:47	-17:49:39	164566	-0:2	4:31	B3	9.30	.00	140	16	22	580	356	6.77
148	10.0C	348	800	21:37:47	-17:49:39	164566?	-0:7	5:23	B3	9.30	.00	148	48	24	2650 H	340	6.82
149	30.0C	360	797	21:37:47	-17:49:39	164566?	-0:6	5:10	B3	9.30	.00	176	122	23	8569 H	440	6.54
150	3.0L	185	499	21:37:53	-10:26:11	164570	0:3	-4:4	A0	8.80	.00	227	9	197	225	291	7.94

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CAPRICORN, R.A. 21:14 DEC. -14:30 (5 FRAMES)

OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAD NO.	R.A.	DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	BG	DENSITY VOLUME	CORR. V/E	UV MAG.
151	10.0C	161	496	21:37:53	-10:26:11	164570	0: 3	-4:57	A0	8.80	.00	74	23	18	806	139	7.80
152	30.0C	174	493	21:37:53	-10:26:11	164570	0: 1	-3:55	A0	8.80	.00	89	68	19	3028	138	7.80
153	30.0C	174	493	21:38:14	-10:26: 3	164573	-0:20	-4: 3	A2	9.00	.00	89	68	19	3028	138	7.80
154	3.0L	219	582	21:39:18	-12:28:42	164584	0:12	1:56	A2	8.30	.00	230	18	204	39974	436	7.50
155	3.0L	422	948	21:39:37	-20:55:49							288	25	196	10967	870	6.75
156	30.0C	376	894	21:40:36	-19:39:10							64	7	20	2097	23	9.76
157	3.0L	305	808	21:42:25	-17: 5:58							244	10	208	2787	343	7.76
158	10.0C	154	587	21:42:45	-12:10: 6							48	6	17	1667	53	8.66
159	1.0L	152	583	21:43:50	-11:35:50	164639	0: 4	-5:53	A0	5.43	.00	136	12	100	350	625	7.11
160	3.0L	152	585	21:43:50	-11:35:50	164639	0: 2	-3:17	A0	5.43	.00	258	28	177	1265	935	6.67
161	3.0C	140	587	21:43:50	-11:35:50	164639	0: 3	-4: 0	A0	5.43	.00	120	34	21	1669	895	5.77
162	10.0C	129	583	21:43:50	-11:35:50	164639	0: 2	-5:16	A0	5.43	.00	242	78	20	6144	860	5.81
163	30.0C	140	580	21:43:50	-11:35:50	164639	0: 9	-2:49	A0	5.43	.00	319	171	22	19013	1040	5.60
164	3.0L	288	839	21:44:51	-17:31:38	164653	0: 3	3: 3	B9	8.20	.00	242	15	200	471	490	7.37
165	3.0C	277	841	21:44:51	-17:31:38	164653	0: 7	2:31	B9	8.20	.00	62	18	21	549	352	6.78
166	10.0C	267	836	21:44:51	-17:31:38	164653	0: 4	2:51	B9	8.20	.00	123	50	20	2501	338	6.83
167	30.0C	281	832	21:44:51	-17:31:38	164653	-0: 6	2:19	B9	8.20	.00	164	129	23	8395	434	6.55
168	30.0C	149	882	21:46:46	-13:18:27	PK52146?	0:10	9:49	Q50	19.5	.00	47	16	31	204	23	9.76
169	30.0C	230	800	21:47: 6	-16:22:52							49	5	22	119	18	10.03
170	3.0L	260	851	21:47:45	-17:34: 5							227	8	187	2467	290	7.94
171	3.0L	278	902	21:48: 9	-18:30: 2							215	4	186	1047	166	8.55
172	1.0L	47	582	21:50:55	-10:32:52	164717	0: 7	-1:32	B9	6.50	.00	149	16	110	473	790	6.85
173	3.0L	48	585	21:50:55	-10:32:52	164717	0: 3	-0:31	B9	6.50	.00	255	23	174	784	600	7.15
174	3.0C	36	587	21:50:55	-10:32:52	164717	0: 7	-0:25	B9	6.50	.00	130	66	21	3515	1550	5.17
175	10.0C	24	582	21:50:55	-10:32:52	164717	0: 3	1:31	B9	6.50	.00	274	134	21	11940	1920	4.93
176	30.0C	39	579	21:50:55	-10:32:52	164717	-0: 8	-0:22	B9	6.50	.00	392	267	18	34623	1910	4.94
177	10.0C	203	894	21:51:27	-17:48:56	164731?	0:23	-0:30	A0	8.70	.00	40	10	16	218	73	8.50
178	30.0C	217	890	21:51:27	-17:48:56	164731	0:18	-0:18	A0	8.70	.00	55	50	21	1346	71	8.53

NRL REPORT 8487

CETUS, R.A. 02:44 DEC. -14:30 (5 FRAMES)																	
OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAO NO.	Δ R.A.	Δ DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	BG	DENSITY VOLUME	CORR. V/E	UV MAG.
1	3.0L	507	980	2: 8:32	-15:32:59	148254	0: 6	0:44	A0	7.90	.00	87	4	74	49 L	42	10.05
2	3.0C	609	879	2:11:23	-12:20: 8							52	12	16	323?	233	7.23
3	10.0C	542	835	2:15:19	-13:44:46							48	18	18	470?	101	8.15
4	3.0C	696	820	2:15:39	-10:31:12							49	6	16	157?	206	7.37
5	3.0C	164	774	2:22:20	-21:29: 1							50	8	13	225?	243	7.19
6	8.4C	479	800	2:23:14	-14:58:41							60	9	19	264?	89	8.28
7	1.0L	655	783	2:23:31	-12:30:54	148385	-0: 1	-0:11	A0	4.90	.00	191	45	40	2909	3600	5.20
8	3.0L	654	783	2:23:31	-12:30:54	148385	0: 2	-1:53	A0	4.90	.00	355	68	79	6576	4150	5.04
9	3.0C	596	729	2:23:31	-12:30:54	148385	0: 2	-3:29	A0	4.90	.00	269	63	16	5519	2420	4.68
10	10.0C	595	727	2:23:31	-12:30:54	148385	0: 5	-4:45	A0	4.90	.00	334	125	22	13047	2080	4.85
11	8.4C	594	785	2:23:31	-12:30:54	148385	0: 1	-2:48	A0	4.90	.00	378	113	23	12142	2300	4.74
12	10.0C	391	705	2:27: 7	-16:50:60							47	6	17	152?	62	8.68
13	3.0L	813	691	2:30: 7	-9:11:57							103	17	75	404?	241	8.15
14	1.0L	177	714	2:31:57	-22:22:14							141	21	33	1:66?	1580	6.09
15	3.0L	470	695	2:32:19	-16:20:31	NO	-0: 3	0:14				108	4	82	97	133	8.79
16	10.0C	412	639	2:32:19	-16:20:31	NO	0: 6	-0: 3				57	12	17	357	86	8.32
17	8.4C	411	696	2:32:19	-16:20:31	NO	-0: 3	-0:11				53	8	20	204	82	8.37
18	3.0L	791	657	2:32:57	-9:34: 6	129994	-0: 6	-2:20	A0	7.16	.00	112	13	76	360 L	224	8.23
19	3.0C	733	603	2:32:57	-9:34: 6	129994	-0:14	-1:44	A0	7.16	.00	59	14	13	465	326	6.87
20	10.0C	733	601	2:32:57	-9:34: 6	129994	-0:10	-1:45	A0	7.16	.00	115	39	17	1941	274	7.06
21	8.4C	733	659	2:32:57	-9:34: 6	129994	-0: 9	-1:11	A0	7.16	.00	107	36	18	1666	284	7.02
22	10.0C	756	584	2:34: 1	-9: 5:22	NO	-0: 1	-0:13				47	7	20	159	62	8.68
23	8.4C	756	642	2:34: 1	-9: 5:22	NO	0: 1	0:12				46	6	19	144	71	8.53
24	3.0C	622	561	2:37: 2	-11:50:55							49	5	12	136?	201	7.39
25	1.0L	572	567	2:41:44	-14: 4:10	148575	0: 2	-0:19	B5	4.39	.00	320	117	40	8899	14600	3.67
26	3.0L	571	567	2:41:44	-14: 4:10	148575	0: 8	-0:34	B5	4.39	.00	412	216	83	19729	18000	3.44
27	3.0C	513	513	2:41:44	-14: 4:10	148575	0:22	-0: 1	B5	4.39	.00	337	178	17	15362	8550	3.30
28	10.0C	513	511	2:41:44	-14: 4:10	148575	0:25	-0: 3	B5	4.39	.00	369	346	24	38604 L	6850	3.54
29	8.4C	513	568	2:41:44	-14: 4:10	148575	0:15	-0:32	B5	4.39	.00	419	308	22	35319 L	7320	3.47
30	10.0C	200	529	2:43: 0	-20:36:41	168025	0: 8	1:10	A0	7.06	.00	55	13	16	373 L	89	8.28
31	8.4C	200	585	2:43: 0	-20:36:41	168025	-0:13	0:47	A0	7.06	.00	52	10	16	292 L	94	8.22
32	8.4C	233	571	2:43:51	-19:56: 3							51	5	17	140?	70	8.55
33	3.0C	910	454	2:43:58	-5:50:58							38	4	12	94?	176	7.54
34	8.4C	504	503	2:47:31	-14:11:10							66	10	17	333?	97	8.19
35	3.0C	581	429	2:48:25	-12:31:16							41	6	13	155?	209	7.35
36	3.0C	309	458	2:48:39	-18:15:18							55	11	12	346?	284	7.02
37	1.0L	262	494	2:50:47	-20:26:20	NO*	-0:10	-1:13				64	5	36	116	520	7.31
38	3.0L	261	494	2:50:47	-20:26:20	NO*	0: 5	-0:45				134	13	75	483	345	7.75
39	3.0C	202	441	2:50:47	-20:26:20	NO*	0: 3	0:44				44	7	12	185	228	7.26
40	10.0C	202	438	2:50:47	-20:26:20	NO*	0:12	0:47				101	31	16	1317	202	7.39
41	8.4C	203	494	2:50:47	-20:26:20	NO*	-0: 9	0:19				95	22	17	947	182	7.50
42	10.0C	27	423	2:53:23	-23:52: 8							46	5	16	123?	59	8.73
43	3.0C	738	349	2:53:34	-9: 8:34							101	14	12	635?	380	6.70
44	3.0C	717	328	2:55:25	-9:32:27							42	5	13	131?	199	7.41
45	10.0C	572	324	2:57: 7	-12:33:20							71	9	15	338?	82	8.37
46	1.0L	447	369	2:59:40	-16:24:43							76	4	37	115?	503	7.34
47	10.0C	28	340	3: 0:11	-23:49:10	168249?	0:19	6:26	A3	4.16	.00	54	19	15	539 L	108	8.07
48	8.4C	29	394	3: 0:11	-23:49:10	168249	0: 7	4:33	A3	4.16	.00	48	13	17	327 L	102	8.13
49	10.0C	803	250	3: 1: 6	-7:45:32							105	20	16	852?	139	7.80
50	10.0C	701	257	3: 1:12	-9:47: 5							48	5	16	140?	61	8.70

PAGE, CARRUTHERS, AND HECKATHORN

CETUS, R.A. 02:44 DEC. -14:30 (5 FRAMES)																	
OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAO NO.	A R.A.	A DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	BG	DENSITY VOLUME	CORR. V/E	UV MAG.
51	10.0C	324	307	3: 1:13	-17:42:11							63	30	15	1033?	173	7.56
52	8.4C	73	373	3: 1:45	-22:50:45							84	17	16	670?	143	7.77
53	8.4C	344	307	3: 5:34	-17:14:54							85	30	17	1168?	218	7.31
54	3.0L	308	304	3: 6:37	-19: 9:33	148791	0: 9	-0:16	A0	7.30	.00	116	11	73	339	219	8.25
55	3.0C	250	250	3: 6:37	-19: 9:33	148791	-0: 3	1:55	A0	7.30	.00	57	12	11	394	277	7.04
56	10.0C	250	248	3: 6:37	-19: 9:33	148791	0: 0	1:51	A0	7.30	.00	122	32	17	1582	226	7.27
57	8.4C	251	304	3: 6:37	-19: 9:33	148791	-0: 5	0:22	A0	7.30	.00	116	26	18	1241	218	7.31
58	3.0L	871	238	3: 6:41	-7:33: 2							108	11	69	335?	222	8.24
59	3.0L	462	268	3: 8: 6	-15:54:21							111	7	75	187?	173	8.51
60	1.0L	228	270	3:10: 0	-20:48:23	168376	-0: 3	0:27	B9	6.90	.00	134	25	33?	1455 H	1900	5.89
61	3.0L	226	270	3:10: 0	-20:48:23	168376	0:12	1:12	B9	6.90	.00	293	70	72	5465 H	3100	5.36
62	3.0C	168	217	3:10: 0	-20:48:23	168376	-0:11	3:52	B9	6.90	.00	204	52	14	3687 H	1540	5.17
63	10.0C	168	215	3:10: 0	-20:48:23	168376	-0: 8	3:47	B9	6.90	.00	325	100	17	10816 H	1600	5.13
64	8.4C	170	270	3:10: 0	-20:48:23	168376	-0:11	3: 0	B9	6.90	.00	352	88	20	8978 H	1620	5.12
65	3.0L	282	284	3:10:17	-19:38: 0							122	30	70	1083?	485	7.38
66	3.0L	252	232	3:12:59	-20:12:11	168410	0: 9	0:11	A0	6.86	.00	104	15	70	413 L	247	8.12
67	3.0C	194	178	3:12:59	-20:12:11	168410	-0:10	3: 1	A0	6.86	.00	52	11	13	328 L	279	7.04
68	10.0C	194	177	3:12:59	-20:12:11	168410	-0:12	1:33	A0	6.86	.00	116	38	17	1897	267	7.08
69	8.4C	196	232	3:12:59	-20:12:11	168410	-0:14	1:35	A0	6.86	.00	106	32	18	1492	258	7.12
70	3.0L	404	209	3:13:27	-17: 0:45	148864	0: 9	-0:15	B3	8.20	.00	271	47	74	3342 H	1580	6.09
71	3.0C	345	156	3:13:27	-17: 0:45	148864	-0: 4	-1:54	B3	8.20	.00	170	32	15	2016 H	890	5.77
72	10.0C	345	154	3:13:27	-17: 0:45	148864	-0: 1	-1:50	B3	8.20	.00	281	66	19	5996 H	810	5.87
73	8.4C	347	210	3:13:27	-17: 0:45	148864	-0: 5	-1:40	B3	8.20	.00	280	59	21	5021 H	795	5.89
74	10.0C	366	139	3:14:27	-16:35:49							96	39	16	1663?	245	7.18
75	10.0C	689	777	3:15:34	-9:54:47	130410	-0: 5	-3:40	B8	8.30	.00	44	9	17	216 L	71	8.53
76	8.4C	692	135	3:15:34	-9:54:47	130410	-0: 4	1:48	B8	8.30	.00	44	4	20	90 L	58	8.75
77	10.0C	372	114	3:16:17	-16:27:26							60	8	15	262?	75	8.47
78	10.0C	247	116	3:17:30	-19: 1:28	148904	-0:16	0:21	A0	6.97	.00	53	17	16	469 L	100	8.16
79	8.4C	249	171	3:17:30	-19: 1:28	148904	-0: 9	-0: 1	A0	6.97	.00	51	12	17	323 L	99	8.17
80	3.0L	233	163	3:19:27	-20:30: 9	168485	-0:34	1: 8	A0	6.58	.00	127	20	70	693	340	7.77
81	10.0C	173	98	3:19:27	-20:30: 9	168485	-0:14	0:43	A0	6.58	.00	71	33	17	1126 L	182	7.50
82	8.4C	176	153	3:19:27	-20:30: 9	168485	-0:11	2:16	A0	6.58	.00	66	20	18	664 L	144	7.76
83	8.4C	460	46	3:25:21	-14:32:21	148969	0:19	-0:54	A0	7.16	.00	53	16	19	4272L	111	8.04



NRL REPORT 8487

GRUS. R.A. 23:34 TO 23:54 DEC. -42:30 TO -40:30 (8 FRAMES)

OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAO NO.	A R.A.	A DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	BG	DENSITY VOLUME	CORR. V/E	UV MAG.
1	3.0C	380	46	0: 1:48	-50:12: 7							160	18	16	12097	560	6.28
2	10.0C	622	200	0: 2:40	-46:49:12							94	37	16	16437	244	7.18
3	3.0C	606	477	0: 4:17	-40:12:33							45	6	14	1542	206	7.37
4	10.0C	682	268	0: 4:59	-44:57:18							70	11	15	4152	90	8.27
5	10.0C	569	29	0: 6:37	-50:26:42	231947	-0:20	4:56	BB	7.17	.00	80	26	22	917 L	152	7.70
6	3.0C	835	866	0: 7:40	-31: 8:14							68	14	16	4927	324E	6.87
7	1.0L	903	458	0:12:30	-39:30	N55 GAL	-0:13	-3:20	SC*		8.1	54	53	49	212	212	8.29
8	3.0L	904	458	0:12:30	-39:30	N55 GAL	0:15	-5:22	SC*		8.1	112	181	106	870	290	7.94
9	10.0C	674	463	0:12:30	-39:30	N55 GAL	-0: 3	1:30	SC*		8.1	36	156	17	1050	103	8.10
10	10.0C	674	463	0:12:30	-39:30	N55 GAL	0: 6	-2:14	SC*		8.1	42	150	17	1028	103	8.12
11	30.0C	684	465	0:12:30	-39:30	N55 GAL	0: 9	2:53	SC*		8.1	63	247	22	3300	110	8.05
12	3.0C	807	501	0:21:35	-37:41:15	192504	0: 9	-0:44	B9	7.83	.00	76	19	16	661	405	6.63
13	10.0C	793	497	0:21:35	-37:41:15	192504	0: 8	-0:34	B9	7.83	.00	165	45	17	2676	346	6.80
14	30.0C	804	498	0:21:35	-37:41:15	192504	0:28	-3:32	B9	7.83	.00	213	117	22	9028	455	6.50
15	10.0C	559	222	0:23:44	-43:57:25	215092	-0: 3	-1:20	A3	3.90	.00	46	5	16	135 L	53	8.85
16	30.0C	668	223	0:23:44	-43:57:25	215092	-0:12	-4:34	A3	3.90	.00	63	30	21	958 L	58	8.75
17	30.0C	627	34	0:28:57	-47:48: 5							54	27	24	6852	61	8.70
18	3.0C	885	461	0:30:31	-37:38: 1							49	9	15	2427	250	7.16
19	3.0C	827	345	0:31:22	-40:12: 0	215143	0:19	-2:11	BB	7.54	.00	64	19	14	627	398	6.65
20	10.0C	812	341	0:31:22	-40:12: 0	215143	0:21	-3:20	BB	7.54	.00	148	46	16	2769	348	6.80
21	30.0C	821	342	0:31:22	-40:12: 0	215143	0:16	-7:55	BB	7.54	.00	190	106	21	8377	360	6.76
22	3.0C	942	360	0:40:18	-38:44:13	1926907	0:32	-3: 2	A0	6.07	.00	98	55	15	2477	1150	5.49
23	10.0C	928	356	0:40:18	-38:44:13	1926907	0:32	-3:13	A0	6.07	.00	227	108	17	8873	1119	5.52
24	30.0C	936	358	0:40:18	-38:44:13	1926907	0:30	-2: 8	A0	6.07	.00	364	211	22	25437	1430	5.25
25	3.0C	953	373	0:40:33	-38:24: 3	1926927	0:28	-2: 8	B9	.00	10.10	46	26	13	672 H	435	6.55
26	10.0C	939	369	0:40:33	-38:24: 3	1926927	0:32	-3:20	BB	.00	10.10	113	65	17	3328 H	449	6.52
27	30.0C	948	371	0:40:33	-38:24: 3	1926927	0:32	-3:20	BB	.00	10.10	177	147	22	11018 H	575	6.25
28	1.0L	91	405	22:51:13	-47:54:25							116	11	50	4717	795	6.84
29	3.0C	146	763	22:51:13	-40:23:44							43	5	15	1217	195	7.43
30	3.0C	38	348	22:54: 9	-48:58:54							55	5	15	1682	206	7.37
31	10.0C	191	632	22:56:53	-42:50:60							42	4	16	967	53	8.85
32	1.0L	160	374	23: 0: 4	-48: 7: 2	231409	0:10	2:11	BB	6.72	.00	90	14	52	417 L	785	6.86
33	3.0L	158	375	23: 0: 4	-48: 7: 2	231409	0: 7	1:13	BB	6.72	.00	201	39	108	1817	935	6.67
34	3.0C	103	374	23: 0: 4	-48: 7: 2	231409	0:20	3:31	BB	6.72	.00	106	37	16	1709	812	5.87
35	10.0C	133	376	23: 0: 4	-48: 7: 2	231409	0:10	2: 6	BB	6.72	.00	233	74	20	5889	823	5.86
36	1.0L	349	837	23: 3:28	-37:59:23							90	6	55	1652	520	7.31
37	1.0L	336	777	23: 4: 6	-39: 9:46	214313	-0: 6	-4:52	A0	5.59	.00	139	22	56	1013	1360	6.26
38	3.0L	334	780	23: 4: 6	-39: 9:46	214313	-0: 6	-3:40	A0	5.55	.00	287	41	117	2768	1550	6.12
39	3.0C	280	779	23: 4: 6	-39: 9:46	214313	-0: 7	-2:57	A0	5.59	.00	163	49	16	2834	1660	5.09
40	10.0C	310	781	23: 4: 6	-39: 9:46	214313	-0: 4	-3:52	A0	5.59	.00	317	83	22	8022	1457	5.23
41	10.0C	90	753	23: 4: 6	-39: 9:46	214313	-0: 8	-0:19	A0	5.59	.00	54	23	16	627 L	168	7.59
42	10.0C	52	424	23:10:37	-45:40:48							55	29	18	8307	147	7.74
43	10.0C	370	681	23:13:16	-40:38:51	231522	0:13	1:12	A5	9.50	9.70	46	51	18	1185 H	200	7.40
44	10.0C	329	527	23:15:33	-43:49:14							58	9	16	2907	78	8.43
45	1.0L	287	347	23:15:58	-47:42:31	231542	-0: 6	0:58	A0	6.70	.00	86	6	54	161 L	515	7.32
46	3.0L	286	350	23:15:58	-47:42:31	231542	-0: 5	1:11	A0	6.70	.00	186	19	113	782	390	7.62
47	3.0C	231	348	23:15:58	-47:42:31	231542	-0: 1	2:37	A0	6.70	.00	97	20	15	866	482	6.44
48	3.0C	79	315	23:15:58	-47:42:31	231542	0: 5	-1:28	A0	6.70	.00	47	20	14	519 L	358	6.76
49	10.0C	262	351	23:15:58	-47:42:31	231542	0: 3	2:53	A0	6.70	.00	205	45	18	3231	396	6.65
50	10.0C	65	310	23:15:58	-47:42:31	231542	0:13	-1:44	A0	6.70	.00	110	65	16	3216	445	6.53

PAGE, CARRUTHERS, AND HECKATHORN

GRUS. R.A. 23:34 TO 23:54 DEC. -42:30 TO -40:30 (8 FRAMES)

OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAO NO.	A R.A.	A DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	BO	DENSITY VOLUME	CORR. V/E	UV MAG.
51	30.0C	76	309	23:15:58	-47:42:31	231542	0: 4	-1:37	A0	6.70	.00	174	145	23	10427	447	6.52
52	1.0L	297	839	23:19: 6	-36:28:46							91	9	50	2667	650	7.06
53	3.0C	470	840	23:20:12	-36:31:37							53	7	16	2007	225	7.27
54	1.0L	531	850	23:21:17	-36:38:49	214517	-0:14	2:53		10.50	10.78	90	5	55	14374	495	7.36
55	1.0L	370	935	23:23:15	-34: 4:21							104	13	49	4587	810	6.82
56	1.0L	300	191	23:24:23	-50:25:57	247880	0: 3	0:49	B8	6.34	.00	140	36	52	1675	2130	5.77
57	3.0L	299	193	23:24:23	-50:25:57	247880	0: 6	-0:20	B8	6.34	.00	292	68	105	4734	3000	5.40
58	3.0C	244	191	23:24:23	-50:25:57	247880	0: 7	1:26	B8	6.34	.00	207	55	15	4095	1760	5.03
59	10.0C	275	194	23:24:23	-50:25:57	247880	0: 8	1:14	B8	6.34	.00	378	96	19	11030	1660	5.09
60	3.0L	485	614	23:25:23	-41: 0:39							179	9	127	2837	216	8.27
61	10.0C	453	596	23:25:52	-41:37:58							59	8	16	2617	75	8.47
62	10.0C	289	656	23:26:36	-39:42:42							46	4	19	1002	52	8.87
63	3.0C	327	315	23:28:15	-47:29: 6							44	4	17	937	178	7.53
64	3.0C	476	625	23:29:12	-40:23:23							62	10	15	3307	274	7.06
65	3.0L	358	227	23:29:37	-49:29:29	2316527	0:12	9:34	A5	9.30	9.90	148	4	105	15474	148	8.68
66	3.0C	429	926	23:29:51	-33:38:24							51	4	16	1227	186	7.48
67	1.0L	585	719	23:30:17	-38: 5:42	214615	0: 7	-0:26	B9	4.46	.00	317	76	60	6420	10800	4.00
68	1.0L	376	720	23:30:17	-38: 5:42	214615	0: 6	-3:15	B9	4.46	.00	357	69	59	6308	10500	4.03
69	3.0L	583	721	23:30:17	-38: 5:42	214615	0:10	-1: 9	B9	4.46	.00	412	137	126	1290	15000	3.64
70	3.0C	529	719	23:30:17	-38: 5:42	214615	0: 4	-3:47	B9	4.46	.00	324	135	19	12034	6450	3.61
71	3.0C	363	718	23:30:17	-38: 5:42	214615	0: 5	-3:36	B9	4.46	.00	345	132	19	12629	6670	3.57
72	10.0C	558	722	23:30:17	-38: 5:42	214615	0: 1	-2:29	B9	4.46	.00	434	285	21	32852	5700	3.75
73	10.0C	348	714	23:30:17	-38: 5:42	214615	0: 1	-4:15	B9	4.46	.00	436	282	21	32861	5700	3.75
74	3.0C	356	714	23:30:17	-38: 5:42	214615	0: 1	-4:45	B9	4.46	.00	483	538	32	76689	4800	3.93
75	10.0C	378	305	23:31:14	-47:32:15	NO	-0: 1	0:26				57	10	16	3027	63	8.66
76	3.0C	200	276	23:31:14	-47:32:15	NO	0: 2	-0:27				65	42	23	1273	89	8.28
77	1.0L	630	788	23:31:40	-36:22	1C5332	0: 6	-3:11	SC		11.4	60	9	55	33	33	10.32
78	1.0L	420	793	23:31:40	-36:22	1C5332?	0:25	-3:36	SC		11.4	55	11	53	22	22	10.76
79	3.0L	627	795	23:31:40	-36:22	1C5332	-0: 2	0:39	SC		11.4	125	16	119	68	23	10.71
80	10.0C	603	794	23:31:40	-36:22	1C5332	-0: 5	-2: 3	SC		11.4	24	16	17	74	16	10.16
81	3.0C	400	786	23:31:40	-36:22	1C5332?	0:24	-6:12	SC		11.4	30	65	23	223	18	10.33
82	3.0L	504	502	23:32: 9	-42:57:39	231672/	0:15	4:42	A2	6.86	.00	159	4	122	133 L	149	8.67
83	3.0C	449	501	23:32: 9	-42:57:39	231672/	0: 6	3:48	A2	6.86	.00	52	8	15	225 L	242	7.19
84	3.0C	295	495	23:32: 9	-42:57:39	231672/	0: 9	6:36	A2	6.86	.00	60	13	14	404	280	7.03
85	10.0C	480	503	23:32: 9	-42:57:39	231672/	0:16	3:55	A2	6.86	.00	133	26	16	1533	212	7.34
86	10.0C	281	491	23:32: 9	-42:57:39	231672/	0: 9	6:29	A2	6.86	.00	129	34	17	1812	238	7.21
87	3.0C	290	490	23:32: 9	-42:57:39	231672/	0: 7	5: 5	A2	6.86	.00	168	84	22	5870	264	7.10
88	3.0L	504	502	23:32:23	-42:53:30	231675/	0: 1	0:32	A2	4.80	.00	159	4	122	133 L	149	8.67
89	3.0C	449	501	23:32:23	-42:53:30	231675/	-0: 8	-0:21	A2	4.80	.00	52	8	15	225 L	242	7.19
90	3.0C	295	495	23:32:23	-42:53:30	231675/	-0: 5	2:26	A2	4.80	.00	60	13	14	404 L	280	7.03
91	10.0C	480	503	23:32:23	-42:53:30	231675/	-0: 2	-0:14	A2	4.80	.00	133	26	16	1533 L	212	7.34
92	10.0C	281	491	23:32:23	-42:53:30	231675/	-0: 5	2:20	A2	4.80	.00	129	34	17	1812 L	238	7.21
93	3.0C	290	490	23:32:23	-42:53:30	231675/	-0: 7	0:55	A2	4.80	.00	168	84	22	5870 L	264	7.10
94	3.0L	465	366	23:35: 9	-45:46: 9	231707	-0:11	-0:12	A2	4.86	.00	165	13	117	413 L	248	8.12
95	3.0C	411	364	23:35: 9	-45:46: 9	231707	-0:11	-1:56	A2	4.86	.00	64	10	14	333 L	276	7.05
96	3.0C	265	352	23:35: 9	-45:46: 9	231707	0: 5	0: 1	A2	4.86	.00	62	13	15	1533 L	212	7.34
97	10.0C	441	367	23:35: 9	-45:46: 9	231707	-0: 7	-0:52	A2	4.86	.00	141	29	16	1592 L	245	7.28
98	10.0C	250	348	23:35: 9	-45:46: 9	231707	-0: 3	-0:31	A2	4.86	.00	126	36	16	1957 L	246	7.17
99	3.0C	262	348	23:35: 9	-45:46: 9	231707	0: 5	0:24	A2	4.86	.00	179	88	22	6439 L	266	7.09
100	3.0C	356	234	23:35:33	-48:40: 35							43	4	14	987	176	7.54

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GRUS, R.A. 23:34 TO 23:54 DEC. -42:30 TO -40:30 (8 FRAMES)

OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAO NO.	A R.A.	A DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	BG	DENSITY VOLUME	CORR. V/E	UV MAG.
101	3.0C	653	832	23:37:10	-34:54:45							51	6	16	1692	210	7.35
102	3.0C	286	322	23:38:55	-46:10:31							61	10	13	3282	274	7.06
103	3.0C	467	711	23:40:39	-37:21:13							54	11	14	3407	281	7.03
104	1.0L	537	825	23:41:45	-34:44:5	NO	0: 6	-1: 9				87	11	53	294	680	7.01
105	3.0L	749	825	23:41:45	-34:44:5	NO	-0: 5	2:26				168	31	113	1054	505	7.34
106	3.0C	695	823	23:41:45	-34:44:5	NO	-0:25	4:35				55	17	17	483	336	6.83
107	3.0C	525	823	23:41:45	-34:44:5	NO	0:14	-2:15				69	16	15	584	365	6.74
108	10.0C	725	826	23:41:45	-34:44:5	NO	-0:14	3:25				123	55	18	2800	369	6.73
109	10.0C	511	819	23:41:45	-34:44:5	NO	-0:11	-3: 2				144	47	18	2674	349	6.79
110	30.0C	518	820	23:41:45	-34:44:5	NO	0:11	-3:56				187	111	23	8320	340	6.82
111	10.0C	473	277	23:42:56	-47: 5:13							37	6	16	1242	60	8.71
112	1.0L	440	114	23:44:37	-50:30:14	248018	-0:12	1: 2	85	5.37	.00	364	176	57	19493	42000	2.52
113	1.0L	261	95	23:44:37	-50:30:14	248018	-0:10	-3:14	85	5.37	.00	409	215	50	37850	39895E	2.57
114	3.0L	440	117	23:44:37	-50:30:14	248018	-0:10	2: 9	85	5.37	.00	445	285	111	35240	H 38000	2.63
115	3.0C	384	115	23:44:37	-50:30:14	248018	-0: 6	0:49	85	5.37	.00	362	210	18	33079	11970	2.94
116	3.0C	248	92	23:44:37	-50:30:14	248018	-0:17	-3:26	85	5.37	.00	374	216	18	30725	H 15700	2.64
117	10.0C	414	118	23:44:37	-50:30:14	248018	-0:15	0:44	85	5.37	.00	453	437	18	55453	9300	3.21
118	10.0C	235	89	23:44:37	-50:30:14	248018	-0:18	-1:44	85	5.37	.00	464	352	23	56800	L 9700E	3.17
119	30.0C	249	91	23:44:37	-50:30:14	248018	-0:15	1:38	85	5.37	.00	464	968	24	94375	L 5500E	3.78
120	3.0C	326	241	23:46:57	-47:18:41							45	10	13	2732	266	7.09
121	3.0L	591	302	23:51:29	-45:36: 8							150	14	116	3842	235	8.17
122	1.0L	424	324	23:52:29	-45: 2:20							86	11	52	2992	685	7.01
123	1.0L	686	895	23:52:41	-32:11:59	214860/	-0: 1	6:20	83	6.05	.00	225	98	52	6688	H 10800	4.00
124	3.0C	673	893	23:52:41	-32:11:59	214860/	0: 0	5:53	83	6.05	.00	323	117	18	12849	6777	3.56
125	10.0C	659	889	23:52:41	-32:11:59	214860/	0: 4	5:37	83	6.05	.00	433	223	24	30818	5350	3.81
126	30.0C	665	890	23:52:41	-32:11:59	214860/	0: 4	3: 8	83	6.05	.00	482	431	26	74763	L 5168	3.85
127	1.0L	686	895	23:52:42	-32: 9:45	214861/	-0: 1	4: 6	A	6.73	.00	225	98	52	6688	H 10800	4.00
128	3.0C	673	893	23:52:42	-32: 9:45	214861/	-0: 0	3:39	A	6.73	.00	323	117	18	12849	6777	3.56
129	10.0C	659	889	23:52:42	-32: 9:45	214861/	0: 4	3:23	A	6.73	.00	433	223	24	30818	H 5350	3.81
130	30.0C	665	890	23:52:42	-32: 9:45	214861/	0: 4	0:54	A	6.73	.00	482	431	26	74763	H 5168	3.85
131	1.0L	628	308	23:54:37	-45: 3: 6							92	14	52	3962	832	6.79
132	10.0C	585	637	23:56: 3	-37:21:35							101	11	17	4952	93	8.24
133	30.0C	497	417	23:56:45	-42:20: 4	231876	0: 5	-1:40	89	8.50	8.90	47	7	20	172	L 29	9.51
134	3.0L	776	525	23:57:46	-39:40:38	214911	-0: 1	0: 8	85	10.20	10.00	160	9	118	276	207	8.31
135	3.0C	721	523	23:57:46	-39:40:38	214911	-0:14	1:10	85	10.20	10.00	49	9	14	245	158	7.66
136	3.0C	565	530	23:57:46	-39:40:38	214911	0: 2	-1:15	85	10.20	10.00	44	4	15	113	184	7.49
137	10.0C	751	526	23:57:46	-39:40:38	214911	-0:11	0:47	85	10.20	10.00	95	25	17	1096	H 170	7.58
138	10.0C	551	525	23:57:46	-39:40:38	214911	0: 6	-2:58	85	10.20	10.00	93	24	17	1044	H 143	7.77
139	30.0C	559	526	23:57:46	-39:40:38	214911	0: 1	-4:41	85	10.20	10.00	98	62	19	2934	135	7.83

## PAGE, CARRUTHERS, AND HECKATHORN

OBJECT NO.	EXP. FILTER	X	Y	R.A.	DEC.	S.A.O. NO.	Δ R.A.	Δ DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	B.G.	DENSITY VOLUME	CORR. V/E	UV MAG.
1	3.0L	270	129	20:14:36	-51:14:33	246522	-0:12	-0:10	A0	7.77	.00	139	3	119	60 L	94	9.17
2	1.0L	541	63	20:21:42	-56:53:50	246574	0:15	1:34	B3	2.12	.00	511	1651	58	100760	313000E	.33
3	3.0L	545	68	20:21:42	-56:53:50	246574	0:44	2:18	B3	2.12	.00	511	1705	125?	322894	312000E	.33
4	3.0C	536	56	20:21:42	-56:53:50	246574	-0:9	-0:47	B3	2.12	.00	511	1480	20?	333700	346000E	.73
5	3.0C	285	213	20:25:46	-51:51:15							52	6	15	185?	218	7.31
6	1.0L	523	115	20:27:20	-56:14:48							85	8	54	209?	590	7.17
7	3.0C	366	205	20:29:28	-52:39:47							80	9	16	335?	268	7.08
8	3.0L	358	222	20:29:42	-52:14:56							169	7	121	226?	193	8.39
9	3.0C	135	355	20:33:36	-47:8:2							44	4	16	101?	177	7.53
10	3.0C	388	233	20:34:8	-52:52:9							92	38	15	1601?	790	5.90
11	3.0C	540	184	20:36:7	-56:13:21							52	4	15	123?	188	7.47
12	3.0C	242	368	20:40:31	-48:58:59							45	4	16	94?	173	7.56
13	3.0L	327	340	20:41:22	-50:40:10	246715	-0:2	0:12	A0	7.49	.00	183	15	125	548	316	7.85
14	3.0C	317	334	20:41:22	-50:40:10	246715	-0:3	-0:9	A0	7.49	.00	75	14	17	492	325	6.87
15	3.0C	743	105	20:42:56	-60:17:24							52	5	15	135?	200	7.40
16	1.0L	713	143	20:44:52	-59:25:9	246736	0:5	-1:34	A0	7.41	.00	79	12	48	314	705	6.98
17	3.0L	718	142	20:44:52	-59:25:9	246736	-0:2	-2:12	A0	7.41	.00	193	48	120	1965	1140	6.45
18	3.0C	708	136	20:44:52	-59:25:9	246736	-0:5	-0:50	A0	7.41	.00	66	26	16	859	500	6.40
19	3.0L	540	247	20:45:16	-55:23:42	246739	-0:6	-0:19	A5	10.16	.00	173	13	128	388	255	8.08
20	3.0C	530	242	20:45:16	-55:23:42	246739	-0:7	1:5	A5	10.16	.00	45	6	16	149	203	7.38
21	3.0L	407	385	20:49:32	-51:54:17	246771	0:0	1:17	A0	7.40	.00	166	15	136	116	150	8.66
22	3.0C	695	183	20:50:21	-58:50:39							72	19	16	652?	402	6.64
23	1.0L	368	402	20:51:1	-50:55:4	246786	0:4	1:16	B9	6.46	.00	229	34	59	2213	2960	5.41
24	3.0L	372	400	20:51:1	-50:55:4	246786	-0:1	0:48	B9	6.46	.00	377	57	136	4275	3000	5.40
25	3.0C	362	394	20:51:1	-50:55:4	246786	-0:2	0:23	B9	6.46	.00	273	53	21	4277	1870	4.96
26	1.0L	210	511	20:52:35	-51:39:58							80	4	52	101?	447	7.47
27	3.0C	399	385	20:52:35	-51:39:58							48	6	16	157?	208	7.36
28	1.0L	551	336	20:57:13	-54:48:32							96	8	55	239?	613	7.13
29	3.0L	77	692	20:58:0	-43:16:33							132	4	106	99?	127	8.85
30	1.0L	350	539	21:4:26	-49:8:29	230536	0:9	0:9	A0	6.84	.00	101	9	58	285	640	7.08
31	3.0L	353	537	21:4:26	-49:8:29	230536	0:4	0:13	A0	6.84	.00	225	17	137	828	475	7.41
32	3.0C	343	532	21:4:26	-49:8:29	230536	0:15	1:1	A0	6.84	.00	95	21	18	948	510	6.38
33	1.0L	250	607	21:4:38	-46:41:41	230538	0:7	1:38	A0	7.23	.00	83	5	55	118	485	7.38
34	3.0L	253	605	21:4:38	-46:41:41	230538	0:5	1:44	A0	7.23	.00	193	19	127	698	330	7.62
35	3.0C	243	599	21:4:38	-46:41:41	230538	0:5	1:5	A0	7.23	.00	69	14	18	477	322	6.88
36	1.0L	123	699	21:5:50	-43:28:42	230548	0:10	-3:50	A0	8.50	8.00	74	6	47	151	528	7.29
37	1.0L	125	707	21:5:53	-43:35:10	230555	0:4	5:3	B9	6.90	.00	89	19	50	562	950	6.65
38	3.0L	127	704	21:6:53	-43:35:10	230555?	-0:7	6:29	B9	6.90	.00	200	46	107	2327	1260	6.34
39	3.0C	117	698	21:6:53	-43:35:10	230555?	-0:6	5:44	B9	6.90	.00	68	29	15	1764	885	5.80
40	3.0C	744	284	21:8:13	-58:44:19							63	5	18	170	202	7.39
41	3.0C	157	716	21:11:4	-44:1:37	230589	-0:11	2:18	A0	9.20	.00	182	8	132	279?	222	8.24
42	3.0L	467	522	21:11:32	-51:16:9							98	7	56	207?	570	7.21
43	1.0L	533	491	21:13:51	-52:48:18							44	8	15	199?	232	7.24
44	3.0C	839	285	21:16:36	-60:18:10							84	4	55	103?	442	7.48
45	1.0L	280	742	21:19:45	-45:42:26							48	6	14	165?	209	7.35
46	3.0C	924	288	21:24:48	-61:38:39							84	4	58	93?	422	7.54
47	3.0L	547	587	21:25:24	-51:54:1							137	17	53	72?	1120	8.85
48	3.0L	317	838	21:31:32	-45:12:9							106	9	62	294?	630	6.47
49	1.0L	894	370	21:31:48	-60:9:9												
50	1.0L	542	661	21:32:29	-50:55:31												

NO

PAVO, R.A. 21:14 DEC. -52:12 (3 FRAMES)																	
OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAO NO.	Δ R.A.	Δ DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	BG	DENSITY VOLUME	CORR. V/E	UV MAG.
51	3.0L	691	536	21:33:0	-54:47	N7090	-0:34	-2:6	SBC	11.7	11.7	139	36	135	145	48	9.91
52	3.0C	682	536	21:33:0	-54:47	N7090	0:16	0:24	SBC	11.7	11.7	18	36	17	39	13	10.38
53	1.0L	884	387	21:33:4	-59:47:11							102	8	51	279?	652	7.06
54	1.0L	389	809	21:34:4	-46:43:36							85	7	55	177?	550	7.25
55	1.0L	380	832	21:35:55	-46:19:26	230769/	-0:20	0:5	B9	9.60	9.60	100	17	56	513 H	865	6.75
56	3.0L	383	830	21:35:55	-46:19:26	230769/	-0:21	-1:17	B9	9.60	9.60	233	36	131	1864 H	1120	6.47
57	3.0C	372	825	21:35:55	-46:19:26	230769/	-0:20	-0:21	B9	9.60	9.60	84	26	18	998 H	540	6.32
58	1.0L	380	832	21:36:8	-46:15:34	230770?	-0:33	-3:57	A0	9.00	9.40	100	17	56	513 H	865	6.75
59	3.0L	383	830	21:36:8	-46:15:34	230770?	-0:34	-5:8	A0	9.00	9.40	233	36	131	1864 H	1120	6.47
60	3.0C	372	825	21:36:8	-46:15:34	230770?	-0:33	-4:12	A0	9.00	9.40	84	26	18	998 H	540	6.32
61	3.0C	639	658	21:42:13	-52:33:10	NO						52	4	17	113?	184	7.49
62	3.0C	560	732	21:42:21	-50:22:52							42	4	17	94?	170	7.58
63	3.0L	659	665	21:43:15	-52:40:59							193	7	138	232?	206	8.32
64	3.0L	664	665	21:43:42	-52:45:45							171	5	138	139?	162	8.58
65	1.0L	808	552	21:45:25	-56:30:24	247190	0:15	-0:53	B9	6.74	.00	126	26	55	1045 H	1420	6.21
66	3.0L	811	552	21:45:25	-56:30:24	247190	0:10	-0:50	B9	6.74	.00	282	44	126	2882 H	1720	6.00
67	3.0C	801	546	21:45:25	-56:30:24	247190	0:14	-1:3	B9	6.74	.00	181	40	18	2510	1070	5.57
68	3.0C	670	663	21:45:33	-52:58:34							77	7	20	248?	238	7.21
69	3.0C	675	663	21:46:0	-53:3:18							62	6	22	159?	200	7.40
70	1.0L	903	508	21:49:41	-58:31:15							92	7	51	211?	585	7.18
71	3.0L	894	532	21:51:23	-58:2:50							152	6	118	173?	163	8.57
72	3.0L	523	885	21:52:3	-47:51:3							196	13	129	492?	294	7.93
73	3.0L	955	509	21:54:31	-59:12:59							141	4	115	95?	126	8.85
74	1.0L	846	627	21:57:0	-56:7:23	247262	0:21	1:57	B8	6.21	.00	114	29	56	1024	1420	6.21
75	3.0L	849	627	21:57:0	-56:7:23	247262	0:11	0:43	B8	6.21	.00	260	53	122	3296	2030	5.82
76	3.0C	839	621	21:57:0	-56:7:23	247262	0:15	0:25	B8	6.21	.00	171	47	19	2932	1280	5.37
77	3.0L	696	800	22:0:0	-51:32	1C5152	-0:15	0:12	1RR	11.9	11.9	134	16	130	73	24	10.66
78	3.0C	689	795	22:0:0	-51:32	1C5152	0:5	-1:42	1RR	11.9	11.9	24	16	18	61	20	9.91
79	3.0L	734	802	22:3:29	-52:3:50							151	4	123	95?	128	8.84
80	1.0L	566	982	22:5:5	-47:12:14	230992	-0:23	-6:10	B5	2.16	.00	94	28	58	714 L	15250E	3.62
81	3.0L	568	982	22:5:5	-47:12:14	230992	-0:8	-5:58	B5	2.16	.00	271	662	135	13157 L	16500E	3.54
82	3.0C	557	981	22:5:5	-47:12:14	230992	0:13	-1:43	B5	2.16	.00	307	269	23	23513 L	13900E	2.77
83	3.0L	766	835	22:9:28	-52:6:12							150	4	123	95?	129	8.83
84	3.0L	685	944	22:11:55	-49:28:58	NO	-0:3	0:4				159	33	124	881	463	7.43
85	3.0C	675	938	22:11:55	-49:28:58	NO	0:4	-0:5				46	9	21	200	228	7.26
86	3.0C	742	938	22:17:11	-50:35:29							62	6	19	178?	209E	7.35

PAGE, CARRUTHERS, AND HECKATHORN

MENSA, R.A. 05:50 DEC. -74:00 (4 FRAMES: SEE NRL REPORT 8206 FOR NEB VALUES)

OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAO NO.	A R.A.	A DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	BG	DENSITY VOLUME	CORR. V/E	UV MAG.
1	30.0C	269	904	3:25:46	-76:55: 9	255988?	2:16	-0:37	A0	6.89	.00	124	6	85	185 L	16	10.16
2	30.0C	256	903	3:26: 8	-77: 9:17	NO						163	16	83	642	30	9.47
3	30.0C	237	877	3:30:15	-77:47:41	NO						108	5	76	134?	16	10.16
4	30.0C	332	926	3:33: 5	-75:34: 7	NO						131	27	87	838?	38	9.21
5	10.0C	176	824	3:36: 2	-79:27:46	NO	0: 5	-0:24				65	4	29	123	54	8.83
6	30.0C	177	822	3:36: 2	-79:27:46	NO	-0: 4	0:25				164	15	66	695	33	9.37
7	30.0C	243	854	3:38:22	-77:57:47	NO						110	8	74	222?	19	9.97
8	30.0C	171	808	3:40:30	-79:43:55	NO						92	12	66	270?	22	9.81
9	30.0C	241	846	3:40:48	-78: 4:39	NO						113	7	76	181?	17	10.09
10	1.0L	513	981	3:45:38	-71:48:46	256025	-0:49	1:51	A0	6.54	.00	99	35	59	1005	1843E	5.93
11	3.0L	514	982	3:45:38	-71:48:46	256025	-0:47	1:41	A0	6.54	.00	249	69	145	3760 H	2138E	5.77
12	10.0C	512	981	3:45:38	-71:48:46	256025	-0:53	1:39	A0	6.54	.00	343	123	42	11579 H	2060	4.86
13	30.0C	511	978	3:45:38	-71:48:46	256025	-0:48	0:50	A0	6.54	.00	428	840	93?	23433	2500E	4.64
14	30.0C	531	975	3:47:29	-71:27:41	NO						128	4	99	103?	13	10.36
15	30.0C	259	835	3:47:52	-77:53: 0	NO						130	6	81	187?	17	10.09
16	10.0C	275	846	3:47:48	-77:28:48	NO	0: 4	-0:24				58	5	36	106	51	8.89
17	30.0C	276	844	3:47:48	-77:28:48	NO	-0: 3	0:24				120	28	85	713	34	9.33
18	3.0L	301	861	3:47:58	-76:52: 5	256028	-0: 8	-2:54	BB	8.12	.00	194	29	141	985	567	7.21
19	10.0C	300	859	3:47:58	-76:52: 5	256028	-0: 6	-2:26	BB	8.12	.00	167	57	35	3188	421	6.59
20	30.0C	300	855	3:47:58	-76:52: 5	256028	0:17	-3:51	BB	8.12	.00	341	100	85	8663	513	6.37
21	30.0C	537	959	3:49:13	-71:24:40	NO						137	8	95	236?	18	10.03
22	10.0C	283	838	3:51:45	-77:25:33	NO						73	4	35	107?	50	8.91
23	10.0C	561	943	3:57:47	-71:12:13	NO						96	104	39	4117?	610	6.18
24	30.0C	570	940	3:58:32	-71: 2:13	NO						140	7	96	210?	17	10.09
25	30.0C	553	841	4: 0:49	-75:59: 3	NO						118	8	88	203?	18	10.03
26	10.0C	553	934	4: 1: 0	-71:18:20	256053?	-1:54	-7:22	A0	6.72	.00	103	43	42	17900	208	7.36
27	30.0C	562	929	4: 1: 0	-71:18:20	256053	-0:46	0:34	A0	6.72	.00	143	30	93	9600L	80	8.40
28	30.0C	604	942	4: 1:21	-70:22: 6	NO						121	8	94	190?	17	10.09
29	3.0L	648	961	4: 2: 8	-69:23:47	NO						177	5	145	125?	157	8.61
30	30.0C	264	791	4: 3:34	-78:12:37	NO						115	4	84	116?	14	10.30
31	30.0C	294	804	4: 3:34	-77:32:11	NO						152	8	87	319?	21	9.86
32	30.0C	296	794	4: 7:18	-77:35:37	NO						128	5	87	168?	16	10.16
33	3.0L	463	857	4: 9:34	-73:53:31	NO						191	7	154	196?	207	8.31
34	10.0C	602	897	4:11:28	-70:47: 8	NO						90	17	39	581?	101	8.15
35	10.0C	817	978	4:12:18	-65:59:58	NO						74	4	35	121?	52	8.87
36	3.0L	688	875	4:22:40	-69:16: 3	NO						257	17	150	912?	555	7.24
37	30.0C	353	760	4:25:29	-76:44:53	NO						107	7	87	170?	17	10.09
38	30.0C	175	699	4:26:57	-80:35:37	NO						107	8	68	230	20	9.91
39	1.0L	606	809	4:31:36	-71:18:39	NO						109	7	66	232?	575	7.20
40	30.0C	316	730	4:32: 8	-77:40:43	NO						113	8	79	211?	18	10.03
41	1.0L	611	808	4:32:11	-71:12:53	NO						127	8	68	308?	630	7.10
42	30.0C	441	763	4:32:15	-74:57: 2	NO						113	8	89	172?	17	10.09
43	30.0C	446	761	4:33:17	-74:51:35	NO						137	31	91	938?	43	9.08
44	30.0C	452	760	4:34: 4	-74:44:35	NO	0:25	0: 8				154	51	89	1916?	95	8.21
45	10.0C	199	692	4:34:13	-80:10:36	NO	-0:24	-0: 9				167	8	34	211?	66	8.61
46	30.0C	199	691	4:34:13	-80:10:36	NO						115	10	66	346	22	9.81
47	30.0C	92	658	4:35:10	-82:24:50	NO						103	4	66	139?	16	10.16
48	30.0C	211	691	4:35:14	-79:56:16	NO						118	5	66	175?	17	10.09
49	10.0C	513	771	4:35:30	-73:25:55	NO LMC	0: 2	-0:19				94	8	37	281	72	8.51
50	30.0C	514	769	4:35:30	-73:25:55	NO LMC	-0: 3	0:20				184	11	88	564	31	9.43

# NRL REPORT 8487

MENSA, R.A. 05:50 DEC. -74:00 (4 FRAMES; SEE NRL REPORT 8206 FOR NEB VALUES)

OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAO NO.	Δ R.A.	Δ DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	BG	DENSITY VOLUME	CORR. V/E	UV MAG.	
51	10.0C	203	691	4:35:41	-80:3:15	NO	-0:7	-2:43				77	6	45	1477	53	8.85	
52	30.0C	208	689	4:35:41	-80:3:15	NO	0:8	2:44				145	53	65	2682?	120	7.96	
53	30.0C	837	852	4:35:57	-66:27:6							126	18	93	473?	25	9.67	
54	10.0C	279	712	4:36:0	-78:31:20	NO*	0:9	0:17				74	9	37	248	69	8.56	
55	30.0C	279	709	4:36:0	-78:31:20	NO*	-0:8	-0:18				159	27	81	1160	51	8.89	
56	30.0C	271	706	4:36:17	-78:42:17							109	4	82	92?	13	10.38	
57	10.0C	462	754	4:37:1	-74:34:50	NO	0:8	0:54				62	4	36	94	47	8.98	
58	30.0C	462	752	4:37:1	-74:34:50		-0:7	-0:54				145	22	86	733	34	9.33	
59	3.0L	727	812	4:38:21	-68:54:32	249073	-0:09	1:51	A0	8.13	.00	179	5	158	122?L	164	8.57	
60	10.0C	725	812	4:38:21	-68:54:32	249073	-0:17	1:17	A0	8.13	.00	112	33	41	1284	178	7.53	
61	30.0C	725	810	4:38:21	-68:54:32	249073	-0:36	0:60	A0	8.13	.00	251	52	95	3471	176	7.54	
62	10.0C	113	656	4:40:24	-82:0:59	NO	0:27	-0:26				69	7	28	213	37	9.24	
63	30.0C	114	655	4:40:24	-82:0:59	NO	0:2	0:16				128	14	61	551	28	9.54	
64	1.0L	632	764	4:43:33	-71:1:22	256122	0:2	0:26	B9	5.69	.00	309	56	69	4784 H	7400	4.41	
65	3.0L	634	765	4:43:33	-71:1:22	256122	0:9	1:15	B9	5.69	.00	433	81	162	7582	8300	4.29	
66	10.0C	632	764	4:43:33	-71:1:22	256122	0:7	0:6	B9	5.69	.00	425	167	41	16736	3110	4.41	
67	30.0C	633	761	4:43:33	-71:1:22	256122	0:18	0:28	B9	5.69	.00	432	294	90	31654	3090*	4.41	
68	30.0C	639	760	4:43:33	-71:1:22	256122?	0:52	7:35	B9	5.69	.00	127	8	91	235 L			
69	30.0C	386	709	4:44:55	-76:21:56							116	8	82	219?	19	9.97	
70	30.0C	352	699	4:45:60	-77:6:22							103	5	80	104?	12	10.47	
71	30.0C	671	758	4:46:17	-70:14:44	NO LMC						152	16	96	579?	32	9.40	
72	30.0C	703	761	4:47:6	-69:34:43							130	8	104	182?	17	10.09	
73	30.0C	263	677	4:47:15	-79:1:4							110	12	77	296?	22	9.81	
74	30.0C	696	756	4:47:57	-69:44:29	N1693?						131	20	101	487?	29	9.51	
75	30.0C	711	756	4:48:38	-69:26:2	N1695						138	7	113	158?	13	10.38	
76	1.0L	792	767	4:48:59	-67:47:53	249120			A2	7.79	.00	76	45	67	184	184	8.44	
77	3.0L	796	769	4:48:59	-67:47:53	249120			A2	7.79	.00	196	60	170	784	261	8.06	
78	10.0C	793	770	4:48:59	-67:47:53	249120	0:57	5:14	A2	7.79	.00	93	41	42	1350 H	191	7.45	
79	30.0C	792	768	4:48:59	-67:47:53	249120	0:50	3:23	A2	7.79	.00	214	88	100	4570 H	276	7.05	
80	30.0C	723	756	4:49:10	-69:11:18	N1698						153	11	113	360?	24	9.71	
81	30.0C	484	712	4:49:35	-74:19:40	LMC NEB			H11	HENZE	N77	213	120	119	4965	540	6.32	
82	30.0C	719	752	4:49:41	-69:16:53	LMC NEB						89	4	67	81	37	9.24	
83	10.0C	719	754	4:50:1	-69:16:28	LMC NEB						145	8	107	248?	19	9.97	
84	30.0C	683	743	4:50:14	-70:3:11	N1702?1711?						179	19	124	703	46	9.00	
85	30.0C	694	745	4:50:14	-69:49:12	N1704?						146	4	119	99?	13	10.38	
86	30.0C	728	752	4:50:18	-69:6:2	N1698?						80	9	51	218	63	8.66	
87	10.0C	694	747	4:50:20	-69:48:34	N1704?						112	25	51	870	155	7.68	
88	10.0C	684	742	4:51:6	-70:1:58	N1711						364	1063	128	59875?	11300	3.00	
89	30.0C	711	744	4:51:12	-69:28:28	N1712?						216	62	172	1881	1845	5.93	
90	3.0L	712	747	4:51:13	-69:27:47	N1712?						178	169	63	8491	2370	4.70	
91	10.0C	711	746	4:51:18	-69:27:50	N1712?						151	34	106	1078?	62	8.68	
92	30.0C	840	769	4:51:38	-66:47:5	N1714,1715?						141	19	107	485	29	9.51	
93	30.0C	677	735	4:51:52	-70:13:33	N1711?						167	12	114	443	29	9.51	
94	30.0C	684	736	4:51:55	-70:4:42	N1711						130	20	92	536?	31	9.43	
95	30.0C	813	761	4:52:6	-67:21:31	LMC NEB						156	16	122	412?	29	9.51	
96	10.0C	814	762	4:52:25	-67:19:52	LMC NEB						115	5	92	110?	14	10.30	
97	30.0C	648	727	4:52:35	-70:51:6							195	36	110	1734	110	8.05	
98	30.0C	740	743	4:52:35	-68:54:12													
99	30.0C	656	727	4:52:40	-70:40:59													
100	30.0C	778	750	4:52:43	-68:6:15	LMC NEB												

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MENSA, R.A. 05:50 DEC. -74:00 (4 FRAMES; SEE NRL REPORT 8206 FOR NEB VALUES)

OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAO NO.	A	A	DEC.	SPEC. TYPE	P MAG.	PEAK DEN.	NO. OF POINTS	BG	DENSITY VOLUME	CORR. V/E	UV MAG.
101	30.0C	682	731	4:52:48	-70: 8: 1	LMC NEB						157	37	118	794?	49	8.93
102	10.0C	778	752	4:53: 1	-68: 5:49	N1731					N8	87	14	50	384	82	8.37
103	30.0C	832	761	4:53: 1	-66:58:29	N1731					N4	308	333	114	19255	3280	4.35
104	30.0C	670	728	4:53: 2	-70:23:28							150	19	106	584?	34	9.33
105	3.0L	832	763	4:53: 5	-66:59:12	N1731					N4	190	5	169	100	155	8.63
106	10.0C	832	763	4:53: 5	-66:57:51	N1731?					N4	140	67	63	2425	459	6.49
107	10.0C	698	734	4:53:19	-69:47:24							77	6	54	130?	51	8.89
108	30.0C	686	727	4:53:56	-70: 3:53	LMC NEB					N185	161	5	123	143?	15	10.23
109	30.0C	658	722	4:54: 0	-70:39:33							184	63	104	1531?	93	8.24
110	30.0C	671	724	4:54: 3	-70:23: 3							138	10	105	291?	20	9.91
111	3.0L	725	735	4:54:16	-69:15:12	LMC NEB,CL					N83	208	4	183	94	158	8.61
112	10.0C	686	728	4:54:16	-70: 3:26	LMC NEB					N185	88	10	54	268	68	8.58
113	10.0C	724	734	4:54:21	-69:15:18	LMC NEB,CL					N83	159	65	78	2325	445	6.53
114	30.0C	739	734	4:54:23	-68:57: 3							143	4	130	80	12	10.47
115	30.0C	763	739	4:54:23	-68:26:42	LMC NEB					N80	174	35	122	925	60	8.71
116	10.0C	763	741	4:54:27	-68:26: 3	LMC NEB					N80	76	5	52	108	47	8.98
117	10.0C	704	730	4:54:31	-69:40:47							92	16	54	441?	89	8.28
118	3.0L	823	753	4:54:40	-67:11:56	LMC NEB,CL					N9	196	27	166	686	595	7.16
119	30.0C	676	722	4:54:45	-70:17:16							141	14	113	323?	24	9.71
120	30.0C	821	749	4:54:56	-67:14: 6	LMC NEB,CL					N9	309	97	115	6381	770	5.93
121	10.0C	821	751	4:55: 1	-67:13:27	LMC NEB,CL					N9	138	108	52	4254	920	5.73
122	30.0C	772	737	4:55: 9	-68:16: 0							175	13	125	456?	31	9.43
123	30.0C	687	722	4:55:11	-70: 3:39							156	6	124	179?	18	10.03
124	30.0C	670	719	4:55:16	-70:25:17	N1754?						153	44	114	1008?	62	8.68
125	30.0C	806	744	4:55:16	-67:33:15							151	41	107	1243?	72	8.51
126	30.0C	645	714	4:55:29	-70:57:15							142	54	93	1691?	100	8.16
127	30.0C	291	660	4:55:41	-78:28:50	256143				A0	8.25	127	17	75	584 L	30	9.47
128	30.0C	689	718	4:55:59	-70: 1:45							161	17	129	433?	31	9.43
129	30.0C	677	715	4:56:15	-70:17:11	N1766						142	24	116	490?	31	9.43
130	30.0C	858	749	4:56:22	-66:30:12	LMC NEB,CL					N11	439	780	115	70948	12000	2.93
131	1.0L	858	750	4:56:23	-66:29:19	LMC NEB,CL					N11	112	45	76	1222	2070	5.80
132	10.0C	857	751	4:56:24	-66:30:47	LMC NEB,CL					N11	284	321	62	18515	6200	3.65
133	3.0L	859	751	4:56:27	-66:29:37	LMC NEB,CL						256	126	172	5435	9150	4.18
134	30.0C	108	624	4:56:32	-82:14:59							93	9	62	223?	21	9.86
135	30.0C	716	720	4:56:32	-69:27:57	LMC CL						371	508	128	40556	7600	3.43
136	30.0C	826	741	4:56:34	-67:10:30							149	18	110	550?	33	9.37
137	10.0C	716	722	4:56:37	-69:27:17	LMC CL						179	280	80	13894	4630	3.97
138	3.0L	716	722	4:56:44	-69:28:34	LMC CL						224	57	181	1708	1730	6.00
139	30.0C	839	742	4:56:59	-66:54:33							163	4	134	103?	14	10.30
140	30.0C	763	726	4:57: 4	-68:28:58	LMC NEB,CL					N91	357	180	105	14968	2280	4.74
141	30.0C	809	735	4:57: 4	-67:32:17							157	17	129	340	26	9.63
142	10.0C	763	728	4:57: 9	-68:28:18	LMC NEB,CL					N91	183	49	55	2913	530	6.34
143	10.0C	747	725	4:57:16	-68:48:36	LMC NEB,CL					N92	86	10	57	244?	65	8.63
144	30.0C	650	706	4:57:27	-70:52:23							139	114	97	3089?	232	7.24
145	3.0L	765	728	4:57:31	-68:27:17	LMC NEB,CL					N91	214	28	168	910	790	6.85
146	30.0C	821	734	4:57:40	-67:17:43							169	115	113	4349?	415	6.60
147	10.0C	717	717	4:57:50	-69:26:58							121	14	81	441?	81	8.39
148	10.0C	704	715	4:57:51	-69:43:26	N1772?1782?						97	10	71	211	58	8.75
149	30.0C	801	730	4:57:53	-67:43: 1							166	74	114	2381?	175	7.55
150	30.0C	704	712	4:57:59	-69:44:17	N1772?1782?						222	58	126	3121	272	7.06



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OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAO NO.	$\Delta$ R.A.	$\Delta$ DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	BG	DENSITY VOLUME	CORR. V/E	UV MAG.
151	10.0C	695	713	4:58:5	-69:54:45	NO LMC	-0:5	-0:12				79	13	54	296	14	10.30
152	30.0C	696	710	4:58:5	-69:54:45	NO LMC	0:6	0:11				186	87	125	2945	23	9.76
153	30.0C	872	742	4:58:12	-66:15:33	LMC NEB					N12		4	143	1077	14	10.30
154	30.0C	810	729	4:58:23	-67:32:7							155	20	113	5967	37	9.24
155	30.0C	872	740	4:58:25	-66:15:43	LMC NEB					N12		24	143	1937	20	9.91
156	30.0C	822	729	4:58:46	-67:17:22							148	7	113	2047	18	10.03
157	30.0C	746	714	4:58:57	-68:53:10	N1785?						210	80	126	34777	322	6.88
158	30.0C	707	708	4:59:3	-69:41:17							162	10	125	2937	23	9.76
159	3.0L	894	743	4:59:6	-65:49:24	N1787						190	6	167	1237	174	8.50
160	10.0C	472	680	4:59:8	-74:40:22	NO	0:13	-0:22				66	6	30	187	61	8.70
161	30.0C	473	679	4:59:8	-74:40:22	NO	-0:13	0:22				189	29	75	1567	68	8.58
162	30.0C	672	702	4:59:16	-70:25:46							146	6	114	1597	16	10.16
163	30.0C	889	739	4:59:19	-65:55:16	N1787						282	312	144	17692	3680	4.22
164	30.0C	799	722	4:59:20	-67:46:42							137	4	117	80	11	10.56
165	10.0C	889	741	4:59:23	-65:54:36	N1787						124	223	55	8827	2460	4.66
166	30.0C	704	706	4:59:25	-69:45:21							162	14	129	3467	26	9.63
167	30.0C	654	698	4:59:35	-70:50:5	NO LMC						144	42	109	9617	56	8.79
168	30.0C	787	718	4:59:37	-68:2:0	LMC NEB					N16		5	120	1167	14	10.30
169	3.0L	890	739	4:59:47	-65:54:56	N1787						190	16	167	331	322	7.83
170	3.0L	682	703	5:0:7	-70:14:3	LMC NEB					N186	201	14	170	347	339	7.77
171	10.0C	682	702	5:0:12	-70:13:0	LMC NEB					N186	127	47	52	1854	311	6.92
172	30.0C	682	699	5:0:19	-70:15:6	LMC NEB					N186	275	173	122	7718	1080	5.56
173	30.0C	829	722	5:0:28	-67:9:56							139	11	117	2267	20	9.91
174	30.0C	780	712	5:0:43	-68:11:39	N1806	-0:0	-0:2	A0	8.95	.00	169	20	125	6197	41	9.13
175	10.0C	721	705	5:0:46	-69:25:17	249166/						83	12	53	288 L	69	8.56
176	30.0C	722	702	5:0:46	-69:25:17	249166	-0:4	0:31	A0	8.95	.00	196	47	131	1405	78	8.43
177	30.0C	672	694	5:0:58	-70:28:13							148	9	127	160	17	10.09
178	30.0C	776	710	5:1:3	-68:16:55	N1806?						185	44	125	17177	121	7.95
179	10.0C	776	712	5:1:7	-68:16:14	N1806?						155	24	114	7647	47	8.98
180	30.0C	678	693	5:1:25	-70:20:55							150	5	114	1477	16	10.16
181	30.0C	691	693	5:1:51	-70:4:45	NO LMC						201	185	117	6987	895	5.77
182	30.0C	880	724	5:1:52	-66:9:45	N1805						83	12	53	288 L	69	8.56
183	10.0C	721	705	5:1:54	-69:33:56	249172?	-1:9	8:37	A3	8.32	.00	85	20	54	508	96	8.20
184	10.0C	880	726	5:1:56	-66:9:5	N1805						83	18	49	4777	92	8.25
185	10.0C	664	691	5:2:2	-70:38:18							137	13	92	3807	24	9.71
186	30.0C	645	686	5:2:3	-71:3:9							122	14	69	489	795	6.84
187	1.0L	488	669	5:2:27	-74:24:38	256152	0:46	1:29	A0	6.97	.00	257	19	167	866	615	7.12
188	3.0L	489	670	5:2:27	-74:24:38	256152	0:48	1:13	A0	6.97	.00	213	47	31	3263	405	6.63
189	10.0C	488	669	5:2:27	-74:24:38	256152	0:39	0:57	A0	6.97	.00	362	77	80	7186	465	6.48
190	30.0C	488	665	5:2:27	-74:24:38							124	12	91	3247	22	9.81
191	30.0C	651	685	5:2:31	-70:55:10	NO LMC						142	20	112	4317	28	9.54
192	30.0C	852	714	5:2:47	-66:44:8	NO LMC						169	23	126	6677	44	9.05
193	30.0C	767	700	5:2:48	-68:29:29							149	19	113	5417	33	9.37
194	30.0C	838	711	5:2:49	-67:1:39	NO LMC						201	28	168	715	630	7.10
195	3.0L	662	686	5:3:6	-70:42:5	NO LMC	0:19	-0:38				110	76	46	2585	495	6.41
196	10.0C	661	688	5:3:6	-70:42:5	NO LMC	-0:24	-0:26				269	302	111	14651	2400	4.69
197	30.0C	663	684	5:3:6	-70:42:5	NO LMC	0:4	1:3				156	16	120	4507	30	9.47
198	30.0C	878	714	5:3:39	-66:13:34							109	27	51	1027	177	7.53
199	10.0C	865	713	5:3:45	-66:29:28	NO LMC	0:2	0:20				250	111	120	55257	645	6.12
200	30.0C	865	711	5:3:45	-66:29:28	NO LMC	-0:1	-0:21									

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OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAD NO.	A R.A.	A DEC.	SPEC. V. TYPE	P MAG.	PEAK DEN.	NO. OF POINTS	B0	DENSITY VOLUME	CORR. V/E	UV MAG.
201	3.0L	824	707	5: 3:49	-67:20:15	LMC NEB, CL				N17	199	20	155	536	462	7.44
202	3.0L	678	686	5: 3:54	-70:22:46	LMC NEB, CL				N188	220	14	177	439?	430	7.51
203	30.0C	824	704	5: 3:56	-67:19:57	LMC NEB, CL				N17	298	89	117	6656	820	5.86
204	10.0C	677	685	5: 3:57	-70:23: 2	LMC NEB, CL				N188	152	168	45	7197	1780	5.01
205	30.0C	737	690	5: 3:59	-69: 8: 3	LMC CL					257	124	121	7883	1080	5.56
206	10.0C	824	706	5: 3:60	-67:19:16	LMC CL					130	58	49	2570	470	6.47
207	10.0C	737	692	5: 4: 4	-69: 7:21	LMC CL					115	91	55	3459	715	6.01
208	30.0C	677	682	5: 4: 5	-70:23:54	LMC NEB, CL				N188	340	179	133	16629	2580	4.61
209	30.0C	798	687	5: 4:19	-67:52:48	LMC CL					208	36	134	1494	105	8.10
210	10.0C	798	699	5: 4:23	-67:52: 6	LMC CL					91	14	55	398	83	8.36
211	30.0C	768	692	5: 4:24	-68:29:18	NO LMC					166	18	128	536?	36	9.27
212	30.0C	660	677	5: 4:50	-70:45:50	LMC NEB, CL				N190	258	80	105	7152?	805	5.88
213	30.0C	903	710	5: 5: 4	-65:44:42	NO LMC					132	5	111	100?	13	10.38
214	3.0L	786	694	5: 5:14	-68: 9: 8	249185	0: 1	1:37	89	7.83	.00	212	28	793	605	7.14
215	10.0C	785	694	5: 5:14	-68: 9: 8	249185	-0: 4	1:28	89	7.83	.00	191	82	4539?	680	6.06
216	10.0C	651	676	5: 5:25	-70:56:48	LMC NEB, CL				N191	88	11	42	350?	80	8.40
217	10.0C	686	679	5: 5:27	-70:12:33	LMC NEB				N169	94	16	44	604?	114	8.01
218	1.0L	660	676	5: 5:35	-70:44:59	LMC NEB, CL				N190	106	13	78	323?	688	7.00
219	30.0C	635	671	5: 5:36	-71:17:56	NO LMC					123	24	84	697?	39	9.18
220	3.0L	662	677	5: 5:41	-70:44: 1	LMC NEB, CL				N190	240	81	176	2755	3200	5.33
221	10.0C	661	676	5: 5:43	-70:44:19	LMC NEB, CL				N190	209	176	50	10592	2810	4.52
222	1.0L	663	674	5: 5:56	-70:41:22	LMC NEB, CL				N190	107	15	77	383?	755	6.90
223	30.0C	638	669	5: 6:12	-71:14:28						111	7	84	174?	17	10.09
224	30.0C	571	662	5: 6:16	-72:39:26	NO LMC	0: 0	-0:16			119	6	77	197?	18	10.03
225	10.0C	948	712	5: 6:20	-64:50: 3	NO LMC	-0: 1	0:15			194	17	43	1271	194	7.43
226	30.0C	949	710	5: 6:20	-64:50: 3	LMC NEB, CL					355	29	101	3608?	267	7.08
227	1.0L	669	673	5: 6:21	-70:34: 1	LMC NEB, CL				N190	106	4	81	95	367	7.63
228	30.0C	566	661	5: 6:22	-72:47: 5						130	7	78	230?	19	9.97
229	30.0C	670	670	5: 6:38	-70:34:13	LMC NEB, CL				N190	412	470	99	51702	7500	3.45
230	3.0L	671	673	5: 6:41	-70:33:11	LMC NEB, CL				N190	251	79	174	3628	4740	4.90
231	10.0C	670	672	5: 6:44	-70:33:30	LMC NEB, CL				N190	230	141	47	10819	2820	4.51
232	10.0C	769	684	5: 6:45	-68:29:59	N1838?					130	27	75	949?	158	7.66
233	30.0C	535	657	5: 6:47	-73:26:38						95	4	70	93?	14	10.30
234	1.0L	551	658	5: 7: 9	-73: 6: 9	256160	0:35	0:48	A0	6.25	.00	100	5	118	450	7.47
235	3.0L	553	660	5: 7: 9	-73: 6: 9	256160	0:23	1:55	A0	6.25	.00	217	13	457	362	7.70
236	10.0C	552	658	5: 7: 9	-73: 6: 9	256160	0:36	1:26	A0	6.25	.00	163	32	1844	320	7.20
237	30.0C	552	655	5: 7: 9	-73: 6: 9	256160	0:45	0:34	A0	6.25	.00	320	54	4601	236	7.22
238	30.0C	233	654	5: 7:37	-79:49:13	NO					124	19	75	634?	32	9.40
239	3.0L	640	664	5: 8: 8	-71:13: 6	N1848					204	12	169	312	312	7.86
240	1.0L	605	659	5: 8:19	-71:55:15	NO LMC	0:10	-0:46			135	12	71	479	855	6.76
241	3.0L	607	661	5: 8:19	-71:55:15	NO LMC	-0: 1	0:19			283	16	163	902	745	6.92
242	10.0C	606	660	5: 8:19	-71:55:15	NO LMC	-0: 2	-0: 1			207	22	31	1591	248	7.17
243	30.0C	607	658	5: 8:19	-71:55:15	NO LMC	-0: 7	0:30			291	37	71	2997	190	7.46
244	30.0C	639	660	5: 8:19	-71:14:18	N1848					285	105	95	5774	555	6.29
245	10.0C	639	662	5: 8:25	-71:13:34	LMC NEB, CL					125	42	39	1764	295	6.98
246	10.0C	733	671	5: 8:38	-69:15: 3	N1848				N101	74	32	48	707?	138	7.80
247	30.0C	694	664	5: 8:46	-70: 5: 3	LMC CL					157	51	108	1560?	96	8.20
248	10.0C	755	672	5: 8:55	-68:48:48	LMC NEB				N103	205	68	59	3716?	750	5.96
249	1.0L	686	664	5: 9: 1	-70:13:55						113	5	82	115?	430	7.51
250	3.0L	756	672	5: 9: 2	-68:48:34	LMC NEB				N103	225	34	174	1050?	955	6.64

# NRL REPORT 8487

HENSA, R.A. 05:50 DEC. -74:00 (4 FRAMES: SEE NRL REPORT 8206 FOR NEB VALUES)

OBJECT NO.	EXP. FILTER	X	Y	R.A.	DEC.	SAD NO.	A R.A.	A DEC.	SPEC. TYPE	P MAG.	PEAK DEN.	NO. OF POINTS	BG	DENSITY VOLUME	CORR. V/E	UV MAG.
251	1.0L	682	653	5: 9:10	-70:19: 2						123	4	77	171?	475	7.41
252	30.0C	722	654	5: 9:12	-69:31:14						130	4	109	79?	11	10.56
253	1.0L	651	659	5: 9:25	-70:58:17						110	4	73	107?	425	7.53
254	30.0C	637	654	5: 9:47	-71:18:49						124	7	85	211?	17	10.09
255	10.0C	797	673	5: 9:50	-67:56:59						81	10	47	277	66	8.61
256	30.0C	797	671	5: 9:50	-67:56:59						186	45	112	1684	46	9.00
257	3.0L	750	666	5:10: 3	-68:56:37					N105	228	24	178	792	750	6.91
258	30.0C	749	663	5:10: 5	-68:57:43					N105	372	2164	132	74710	14700	2.71
259	30.0C	629	682	5:10: 6	-71:29: 5						131	40	84	1200?	66	8.61
260	10.0C	749	665	5:10: 9	-68:56:59						196	57	63	3130	578	6.24
261	30.0C	922	695	5:10:15	-65:25:37						138	47	104	1329?	76	8.46
262	30.0C	688	655	5:10:34	-70:14:46						139	25	104	682?	39	9.18
263	3.0L	834	674	5:10:40	-67:12:59					N26.27	192	4	171	79?	133	8.79
264	30.0C	703	656	5:10:40	-69:55:55						140	4	109	108?	13	10.38
265	30.0C	920	671	5:12:48	-65:29:27						140	32	100	938?	51	8.89
266	10.0C	932	675	5:13:13	-65:17:33						109	47	45	1841	248	7.17
267	30.0C	932	673	5:13:13	-65:17:33						256	81	108	5016	344	6.81
268	30.0C	826	655	5:13:39	-67:24:14						365	508	100	40562	6130	3.67
269	1.0L	825	657	5:13:41	-67:24: 5					N30	98	5	76	107	425	7.53
270	3.0L	826	658	5:13:45	-67:24:24					N30	220	59	171	1844	1780	5.96
271	1.0L	729	646	5:13:48	-69:23: 8					N113	111	13	80	342	705	6.98
272	3.0L	730	647	5:13:52	-69:23:26					N113	254	56	183	1906	2010	5.83
273	30.0C	730	644	5:13:54	-69:23:22					N113	408	694	188	2437	290	6.99
274	10.0C	826	657	5:13:56	-67:23:34					N30	173	307	41	14784	4350	4.04
275	10.0C	730	646	5:13:58	-69:22:37					N113	241	219	83	2959	665	6.09
276	10.0C	356	622	5:14: 8	-77:16:21						65	4	31	117	52	8.87
277	30.0C	357	621	5:14: 8	-77:16:21						146	23	76	838	39	9.18
278	3.0L	722	645	5:14:11	-69:33:37					N114	205	8	173	207	248	8.12
279	30.0C	870	656	5:14:37	-66:31: 5					N31	150	20	107	607?	36	9.27
280	3.0L	723	643	5:14:41	-69:32:33					N114	205	8	174	200?	238	8.16
281	10.0C	741	642	5:15: 7	-69: 9:16						70	7	44	1632	46	9.00
282	30.0C	761	640	5:15:24	-68:45: 4						118	7	94	159?	15	10.23
283	30.0C	820	640	5:16:36	-67:32:57						137	23	101	630?	35	9.30
284	10.0C	673	630	5:16:54	-70:35:51						64	25	37	118	52	8.87
285	30.0C	673	627	5:16:54	-70:35:51						153	37	86	1305	72	8.51
286	30.0C	800	634	5:17:23	-67:58:13					N36	136	8	107	206?	15	10.23
287	10.0C	722	631	5:17:24	-69:33:58					N117	182	369	50	14261	4450	4.02
288	30.0C	758	628	5:18: 7	-68:51: 4						123	4	97	94?	13	10.38
289	30.0C	641	619	5:18:29	-71:17: 7					N195	122	13	75	423?	26	9.63
290	30.0C	737	654	5:18:31	-69:16:17					N119	432	371	98	4973?	6900	3.54
291	10.0C	737	656	5:18:35	-69:15:31					N119	407	314	41	28418	8150	3.36
292	1.0L	737	655	5:18:39	-69:14:46					N119	178	48	87	2277	4280	5.01
293	3.0L	738	656	5:18:44	-69:15: 4					N119	377	69	196	5432	8200	4.30
294	30.0C	904	638	5:18:48	-65:51:48						144	57	106	1560?	94	8.22
295	30.0C	310	604	5:18:50	-78:16:29						106	17	76	428?	27	9.58
296	30.0C	673	618	5:18:60	-70:36:55						114	12	84	302?	21	9.86
297	30.0C	452	611	5:19: 6	-75:17:24						135	11	70	456	24	9.71
298	30.0C	755	622	5:19:14	-68:55:11						131	5	100	132?	15	10.23
299	30.0C	912	636	5:19:18	-65:43:18						129	5	105	113?	14	10.30
300	1.0L	717	620	5:19:35	-69:40: 8					N120	116	19	81	482	880	6.73

PAGE, CARRUTHERS, AND HECKATHORN

HENSA, R.A. 05:50 DEC. -74:00 (4 FRAMES; SEE NRL REPORT 8206 FOR NEB VALUES)

OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAD NO.	A R.A.	A DEC.	SPEC. V TYPE	P MAG.	PEAK DEN.	NO. OF POINTS	BG	DENSITY VOLUME	CORR. V/E	UV MAG.
301	3.0L	718	621	5:19:39	-69:40:26	LMC NEB,CL				N120	273	147	179	5766	10500	4.03
302	30.0C	717	619	5:19:39	-69:41:45	LMC NEB,CL				N120	396	1593	97	128552?	27000	2.05
303	10.0C	717	620	5:19:44	-69:40:58	LMC NEB,CL				N120	248	151	50	10025	2590	4.61
304	30.0C	793	623	5:19:45	-68: 7:45	LMC NEB				N41	159	33	122	7357	46	9.00
305	10.0C	331	606	5:19:57	-77:49:26						56	6	30	1422	56	8.79
306	10.0C	703	618	5:20: 1	-69:58:39						64	4	40	897	44	9.05
307	30.0C	847	625	5:20:12	-67: 1:46	NO LMC	0: 1	0:23			142	20	108	5272	31	9.43
308	10.0C	830	626	5:20:14	-67:22:33	NO LMC	-0: 2	-0:24			71	9	44	217	65	8.63
309	30.0C	830	624	5:20:14	-67:22:33	LMC NEB				N41	153	17	121	1120	74	8.48
310	30.0C	797	620	5:20:15	-68: 2:54	LMC NEB				N38	132	6	108	4357	30	9.47
311	30.0C	858	626	5:20:19	-66:48: 7	LMC NEB,CL				N40	183	40	122	1400	91	10.23
312	30.0C	924	631	5:20:28	-65:28:50						213	17	183	4222	434	7.50
313	3.0L	727	618	5:20:29	-69:29:21	LMC NEB,CL				N40	78	13	49	324	76	8.46
314	10.0C	923	632	5:20:40	-65:29:21						82	9	33	2887	76	8.46
315	10.0C	335	603	5:20:50	-77:44:34	NO LMC	0: 5	-0:22			222	60	187	1368	1370	6.25
316	3.0L	724	615	5:21: 5	-69:32:55	NO LMC	-0: 4	0:23			146	218	51	11381?	3300	4.34
317	10.0C	724	615	5:21: 5	-69:32:55	NO LMC	0: 2	0:23			81	13	50	325	76	8.46
318	10.0C	846	622	5:21:16	-67: 2:55	NO LMC	-0: 1	-0:24			187	40	116	1688?	110	8.05
319	30.0C	846	620	5:21:16	-67: 2:55	LMC NEB,CL				N43	309	209	107	14347	2220	4.77
320	30.0C	909	625	5:21:17	-65:47:38						149	5	114	1527	15	10.23
321	30.0C	892	624	5:21:19	-66: 7:27	LMC NEB,CL				N43	139	65	57	2873	545	6.31
322	10.0C	909	627	5:21:20	-65:46:51						112	9	62	304?	22	9.81
323	30.0C	533	605	5:21:28	-73:35:32	N1956					227	155	81	8476	885	5.78
324	30.0C	340	599	5:21:31	-77:39:13	N1956					106	57	32	2385	435	6.55
325	10.0C	338	601	5:21:41	-77:40:56	LMC NEB,CL					189	4	161	87	137	8.76
326	3.0L	338	602	5:22: 4	-77:41:36	LMC NEB,CL				N44	415	273	114	24616	4150	4.09
327	30.0C	801	612	5:22: 4	-67:58:24	LMC NEB,CL				N44	127	26	80	832	1400	6.23
328	1.0L	800	613	5:22: 8	-67:58: 2	LMC NEB,CL				N44	298	155	48	10979	2900	4.48
329	10.0C	801	614	5:22: 8	-67:57:37	LMC NEB,CL				N126	162	7	108	278	20	9.91
330	30.0C	746	609	5:22: 9	-69: 7:16	LMC NEB,CL				N44	281	68	178	3285	4180	5.03
331	3.0L	802	614	5:22:13	-67:57: 6						167	43	129	11172	75	8.47
332	30.0C	895	617	5:22:35	-66: 4: 4						184	91	115	2971?	246	7.17
333	30.0C	838	611	5:22:53	-67:13:42	N1940	0:29	-3:20	A3	7.40	75	10	36	273	72	8.51
334	10.0C	626	601	5:23: 9	-71:33: 8	256180	0:24	-4: 8	A3	7.40	176	36	85	1512	67	8.59
335	30.0C	626	599	5:23: 9	-71:33: 8	LMC NEB,CL				N200	186	106	88	4124	323	6.88
336	30.0C	638	597	5:23: 9	-71:33: 8	LMC NEB				N130	125	14	92	3532	23	9.76
337	30.0C	696	601	5:23:17	-70:10:19	LMC NEB				N45	170	27	119	9167	57	8.77
338	30.0C	864	611	5:23:20	-66:42:43	LMC NEB				N45	71	4	51	80	40	9.16
339	10.0C	863	613	5:23:22	-66:43: 9	LMC NEB					135	6	110	1372	15	10.23
340	10.0C	827	608	5:23:26	-67:27:32	LMC NEB				N131	85	11	48	2962	73	8.50
341	10.0C	710	603	5:23:31	-69:51:57	NO LMC				N99,200	152	11	105	339?	22	9.81
342	30.0C	789	604	5:23:45	-68:13:48	LMC NEB,CL				N138	76	8	47	190	60	8.71
343	10.0C	638	600	5:23:47	-71:21:22	LMC NEB					116	8	90	192?	18	10.03
344	30.0C	772	602	5:23:49	-68:35: 4						105	4	72	99?	408	7.57
345	1.0L	578	599	5:24: 1	-80:35:45						106	7	59	212?	580	7.19
346	1.0L	196	589	5:24: 1	-80:35:45						106	5	82	104?	13	10.38
347	30.0C	671	598	5:24: 1	-70:41:55						216	11	187	280	326	7.82
348	30.0C	877	608	5:24: 4	-66:26:44	LMC NEB				N132	216	11	187	280	326	7.82
349	3.0L	721	601	5:24:15	-69:38:56	LMC NEB				N132	135	320	46	11859	3570	4.26
350	10.0C	721	600	5:24:21	-69:38:18	LMC NEB										

MNSA, R.A. 05:50 DEC. -74:00 (4 FRAMES; SEE NRL REPORT 8206 FOR NEB VALUES)

OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAO NO.	$\Delta$ R.A.	$\Delta$ DEC.	SPEC. TYPE	P MAG.	PEAK DEN.	NO. OF POINTS	BG	DENSITY VOLUME	CORR. V/E	UV MAG.
351	30.0C	835	503	5:24:35	-67:17:49						134	9	109	2087	18	10.03
352	30.0C	761	598	5:24:38	-68:49:0						139	9	119	180	18	10.03
353	30.0C	751	597	5:24:47	-69:1:34						150	24	108	744?	42	9.10
354	3.0L	343	595	5:24:53	-77:35:41	NO					197	17	160	445	340	7.77
355	30.0C	774	597	5:24:59	-68:32:48	LHC NEB				N138	223	30	108	1550	93	8.24
356	30.0C	679	593	5:25:7	-70:32:3						115	8	85	194?	18	10.03
357	10.0C	774	598	5:25:16	-68:32:2	LHC NEB				N138	106	20	58	662?	119	7.97
358	30.0C	885	601	5:25:35	-68:17:7	LHC NEB, CL				N48	241	89	137	3594	372	6.72
359	10.0C	885	603	5:25:38	-68:16:19	LHC NEB, CL				N48	104	27	59	955	151	7.71
360	10.0C	709	594	5:25:42	-69:53:36						84	30	45	857?	161	7.64
361	10.0C	748	595	5:25:46	-69:4:40						92	6	59	162?	51	8.89
362	30.0C	857	598	5:25:49	-68:51:55	LHC NEB					138	10	108	249?	19	9.97
363	30.0C	843	597	5:25:56	-67:8:6					N50	143	19	106	546?	33	9.37
364	10.0C	868	600	5:26:7	-66:37:54	NO LHC	0:2	0:25			94	23	53	681	126	7.90
365	30.0C	868	598	5:26:7	-66:37:54	NO LHC	-0:1	-0:24			215	173	108	8360	1070	5.57
366	10.0C	766	594	5:26:8	-68:42:11						70	7	46	156?	56	8.79
367	10.0C	824	596	5:26:18	-67:31:0	LHC NEB, CL				N52	290	566	65	26552?	9900	3.14
368	10.0C	839	597	5:26:24	-67:12:20	LHC NEB				N50	96	6	47	227?	62	8.68
369	30.0C	859	595	5:26:28	-66:49:32						138	21	105	596?	35	9.30
370	10.0C	341	588	5:26:50	-77:37:50	NO LHC					63	10	31	265	72	8.51
371	3.0L	728	590	5:26:52	-69:30:52	NO LHC	0:4	0:20			209	4	187	86?	151	8.66
372	10.0C	727	590	5:26:52	-69:30:52	NO LHC	-0:4	-0:18			101	11	64	373?	76	8.46
373	10.0C	710	589	5:26:55	-69:52:32						140	14	94	1278?	220	7.30
374	1.0L	759	589	5:27:3	-68:50:8	LHC NEB, CL				N144	320	45	212	479	810	5.82
375	3.0L	760	590	5:27:7	-68:50:27	LHC NEB, CL				N144	330	626	56	1857?	2100	5.78
376	10.0C	759	589	5:27:14	-68:51:6	LHC NEB, CL				N144	62	5	38	45302?	14800	2.70
377	10.0C	627	586	5:27:19	-71:36:49	NO LHC	0:3	-0:13			150	44	80	1653	51	8.89
378	30.0C	628	584	5:27:19	-71:36:49	NO LHC	-0:2	0:13			93	4	58	115?	46	9.00
379	10.0C	816	591	5:27:20	-67:41:8	LHC NEB, CL				N51	103	103	41	3546?	740	5.97
380	10.0C	710	586	5:27:39	-69:52:37	N1969, 1971	0:14	0:23			94	20	45	749	138	7.80
381	10.0C	854	590	5:27:44	-66:55:31	NO LHC	-0:14	-0:23			198	58	104	2934	216	7.32
382	30.0C	854	590	5:27:47	-66:55:31	NO LHC					420	123	106	109690	20600	2.34
383	30.0C	828	587	5:27:47	-67:27:3	LHC NEB, CL				N51	126	65	90	1505	2610	5.55
384	1.0L	826	588	5:27:49	-67:27:45	LHC NEB, CL				N51	130	67	75	2426?	156	7.67
385	30.0C	347	582	5:27:52	-77:31:13						281	164	217	2332	3230	5.31
386	3.0L	828	589	5:27:54	-67:28:50	LHC NEB, CL				N51	277	26	86	805	1330	6.28
387	1.0L	751	584	5:27:56	-69:0:14	N1983					450	1516	98	2247?	2460	5.61
388	3.0L	752	586	5:28:1	-69:0:33	N1983					223	58	85	196254?	53000	1.31
389	30.0C	750	581	5:28:17	-69:3:20	N1983				N204	223	63	85	3348	233	7.23
390	30.0C	744	580	5:28:22	-70:38:47	LHC NEB, CL				N145	137	63	85	2070	3920	5.10
391	1.0L	744	582	5:28:23	-69:9:3	LHC NEB				N205	131	32	86	865?	48	8.96
392	30.0C	635	579	5:28:24	-71:27:54	LHC NEB				N204	104	25	38	919	171	7.57
393	10.0C	674	582	5:28:26	-70:37:58	LHC NEB, CL				N145	307	144	191	8140?	16200	3.56
394	3.0L	745	583	5:28:27	-69:9:22	LHC NEB					84	8	55	211?	60	8.71
395	10.0C	864	587	5:28:39	-66:42:47	NO LHC					88	6	59	153?	50	8.91
396	10.0C	729	581	5:28:43	-69:28:53						90	18	59	457?	91	8.26
397	10.0C	867	585	5:29:5	-66:39:6						186	196	120	6212 H	550	6.30
398	30.0C	880	593	5:29:23	-68:28:34	249294?	-2:10	5:1	A0	8.41	126	5	95	125?	14	10.30
399	30.0C	688	575	5:29:26	-70:21:16	N2001					268	33	208	1045?	1150	6.44
400	3.0L	764	579	5:29:27	-68:45:38											

PAGE, CARRUTHERS, AND HECKATHORN

MENSA, R.A. 05:50 DEC. -74:00 (4 FRAMES; SEE NRL REPORT 8206 FOR NEB VALUES)

OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAO NO.	A R.A.	A DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	BG	DENSITY VOLUME	CORR. V/E	UV MAG.
401	10.0C	763	578	5:29:34	-68:46:20	N2001						249	126	57	96157	2560	4.62
402	3.0L	749	578	5:29:38	-69:4:26	LMC NEB.CL					N146	247	62	194	2200?	2540	5.58
403	30.0C	801	576	5:29:39	-68:0:55	N2004						147	13	102	434?	26	9.63
404	3.0L	836	581	5:29:40	-67:17:0							220	19	190	472	500	7.35
405	30.0C	693	573	5:29:57	-70:15:2							136	12	100	308?	22	9.81
406	10.0C	749	576	5:29:59	-69:3:54	LMC NEB.CL					N146	192	172	59	9304?	2610	4.60
407	30.0C	714	573	5:30:2	-69:48:39							184	50	115	1560?	100	8.16
408	30.0C	684	573	5:30:6	-70:51:31	N2010						258	94	80	5728	502	6.40
409	1.0L	899	580	5:30:9	-65:59:44							111	4	79	104	410	7.57
410	10.0C	655	575	5:30:9	-71:2:1	LMC NEB.CL					N206	62	6	37	135?	55	8.81
411	10.0C	684	575	5:30:11	-70:50:41	N2010						115	30	47	906	166	7.60
412	10.0C	855	578	5:30:19	-66:54:6	LMC CL						208	171	62	11984?	3640	4.23
413	3.0L	855	578	5:30:21	-66:54:39	LMC CL						240	90	190	2641?	3260	5.30
414	30.0C	836	573	5:30:39	-67:18:35	N2004						419	1071	113	133853	27000	2.05
415	1.0L	835	574	5:30:40	-67:17:58	N2004						116	11	89	261	595	7.16
416	10.0C	835	575	5:30:41	-67:19:0	N2004						251	519	48	35968	11100	3.02
417	3.0L	836	575	5:30:44	-67:18:18	N2004						268	75	199	2727	3420	5.25
418	30.0C	616	570	5:30:59	-71:52:3							92	5	69	108?	15	10.23
419	30.0C	637	569	5:31:3	-71:25:35							115	14	80	368?	24	9.71
420	10.0C	682	571	5:31:12	-70:53:15							68	13	38	319?	80	8.40
421	3.0L	784	571	5:31:18	-68:45:43	N2001?						270	19	205	702	745	6.92
422	30.0C	784	568	5:31:22	-68:47:17	N2001?						381	102	120	13703	2000	4.89
423	30.0C	671	567	5:31:24	-70:42:47							131	4	96	114?	14	10.30
424	10.0C	784	570	5:31:26	-68:45:12	N2001?						228	187	51	12297	3500	4.28
425	1.0L	783	569	5:31:28	-68:45:24	N2001?						122	8	89	214	540	7.27
426	30.0C	653	566	5:31:36	-71:5:27	LMC CL						356	222	90	15762	2180	4.79
427	3.0L	850	572	5:31:37	-67:0:54	N2006						254	109	219	736	725	6.94
428	30.0C	614	566	5:31:47	-71:54:36							92	13	70	260?	21	9.86
429	30.0C	894	570	5:31:48	-66:7:40							166	29	130	782	53	8.85
430	3.0L	653	569	5:31:55	-71:5:7	LMC CL						236	42	174	1461	1290	6.32
431	10.0C	653	568	5:31:57	-71:4:37	LMC CL						183	108	39	5244	1150	5.49
432	1.0L	652	567	5:32:7	-71:4:49	LMC CL						107	11	78	262	630	7.10
433	10.0C	773	567	5:32:8	-68:35:12	LMC NEB.CL						120	63	53	2232?	400	6.64
434	30.0C	818	565	5:32:8	-67:39:50	N2011						429	346	117	47429	7000	3.52
435	1.0L	709	565	5:32:12	-69:55:0	H0269696	0:11	1:53	B	10.7		125	13	79	385	509	7.33
436	3.0L	710	566	5:32:12	-69:55:0	H0269696	0:15	1:34	B	10.7		272	27	178	1275	742	6.92
437	10.0C	709	566	5:32:12	-69:55:0	H0269696	0:5	0:49	B	10.7		196	39	48	2229	324	6.87
438	30.0C	709	563	5:32:12	-69:55:0	H0269696	0:16	-0:2	B	10.7		333	75	127	4237	332	6.85
439	3.0L	817	567	5:32:15	-67:40:45	N2011						302	156	186	7034	14000	3.71
440	3.0L	878	570	5:32:16	-66:27:22	LMC CL						234	23	193	703?	725	6.94
441	1.0L	815	565	5:32:24	-67:41:40	LMC NEB.CL						132	69	81	2057	3880	5.11
442	10.0C	816	566	5:32:24	-67:41:29	LMC NEB.CL						321	341	51	28033	8600	3.30
443	30.0C	670	563	5:32:25	-70:44:4							118	14	88	353?	23	9.76
444	3.0L	740	566	5:32:27	-69:15:47	N2015						234	64	195	1731?	1910	5.89
445	10.0C	740	565	5:32:34	-69:15:17	N2015						175	284	50	13703?	4130	4.10
446	10.0C	877	567	5:32:40	-66:28:6	LMC NEB.CL						148	24	50	1230?	197	7.42
447	30.0C	682	562	5:32:41	-70:28:58	NO LMC						121	5	93	122?	14	10.30
448	1.0L	823	563	5:32:50	-67:31:41	N2021?						106	4	81	92	382	7.64
449	30.0C	667	561	5:32:55	-70:47:51							111	7	81	190?	18	10.03
450	10.0C	760	563	5:33:3	-68:51:29							88	29	51	811?	150	7.71

# NRL REPORT 8487

HENSA. R.A. 05:50 DEC. -74:00 (4 FRAMES: SEE NRL REPORT 8206 FOR NEB VALUES)

OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAO NO.	Δ R.A.	Δ DEC.	SPEC. TYPE	P MAG.	PEAK DEN.	NO. OF POINTS	BG	DENSITY VOLUME	CORR. V/E	UV MAG.
451	10.0C	849	564	5:33:5	-67:1:38	N2002-34					180	23	74	1337?	210	7.35
452	3.0L	265	569	5:33:6	-79:10:2	NO	0:21	-3:22			172	8	153	166?	187	8.42
453	10.0C	269	571	5:33:6	-79:10:2	NO	-0:3	1:29			62	4	31	1110	25	9.67
454	30.0C	270	569	5:33:6	-79:10:2	NO	-0:17	1:53			144	12	80	438	25	9.67
455	10.0C	824	562	5:33:17	-67:31:31	N2021					186	219	47	14041?	4000	4.13
456	3.0L	825	562	5:33:21	-67:30:45	N2021					239	72	184	2494?	2040	5.82
457	30.0C	622	560	5:33:25	-71:44:32	N2025					106	8	79	186?	17	10.09
458	10.0C	876	563	5:33:31	-66:29:20						83	10	48	278?	71	8.53
459	10.0C	887	563	5:33:43	-66:13:41	LMC NEB				N62	80	8	48	220?	63	8.66
460	10.0C	784	559	5:33:44	-68:46:28	LMC NEB				N150	90	5	67	106?	43	9.08
461	3.0L	857	561	5:33:45	-66:52:10						224	6	195	155?	232	8.19
462	3.0L	620	562	5:33:46	-71:46:41	N2025					204	4	169	110	162	8.58
463	10.0C	262	568	5:33:50	-79:17:7	NO	0:7	-0:12			69	9	34	2440	28	9.54
464	30.0C	263	566	5:33:50	-79:17:7	NO	-0:7	0:12			150	20	75	9420	32	9.40
465	30.0C	901	560	5:33:53	-65:59:11						148	174	49	60?	10	10.67
466	10.0C	825	559	5:33:57	-67:31:31	N2021					142	4	129	8126?	2040	4.87
467	1.0L	849	558	5:34:6	-67:0:31						111	17	86	380?	740	6.92
468	30.0C	268	565	5:34:9	-79:10:40	NO					126	12	74	429?	25	9.67
469	30.0C	657	555	5:34:27	-71:0:26						109	4	86	84?	12	10.47
470	3.0L	455	566	5:34:38	-75:16:5	256203	0:3	-0:6	A0	8.33	192	6	160	161	193	8.39
471	10.0C	455	564	5:34:38	-75:16:5	256203	0:11	0:22	A0	8.33	115	22	28	936	144	7.76
472	30.0C	456	561	5:34:38	-75:16:5	256203	0:3	0:47	A0	8.33	246	36	65	2571	111	8.04
473	10.0C	730	555	5:34:42	-69:27:48						122	44	52	1895?	318	6.89
474	30.0C	771	551	5:35:4	-68:38:31						150	4	114	120?	14	10.30
475	3.0L	854	554	5:35:15	-66:55:48	N2027					271	266	191	11311	27600	2.97
476	30.0C	899	552	5:35:19	-66:1:37	LMC NEB,CL				N63	298	40	108	3732	307	6.93
477	3.0L	717	553	5:35:21	-69:44:33	N2033,2048					260	65	184	2904?	3600	5.20
478	1.0L	853	552	5:35:23	-66:55:27	N2027					120	36	87	942	1580	6.09
479	10.0C	752	552	5:35:23	-69:1:27						84	32	48	911?	161	7.64
480	30.0C	855	551	5:35:23	-66:54:57	N2027					423	1312	111	149860	33800	1.80
481	10.0C	854	553	5:35:26	-66:55:21	N2027					248	460	61	29169	10000	3.13
482	30.0C	780	549	5:35:30	-68:27:14	N2042?					148	17	113	404?	26	9.63
483	3.0L	822	552	5:35:32	-67:35:37	LMC NEB,CL				N56.59	216	4	195	79	135	8.78
484	10.0C	899	553	5:35:34	-66:0:45	N2030					131	32	60	1372	224	7.28
485	10.0C	758	551	5:35:36	-68:53:55	N2042?					93	12	48	447?	89	8.28
486	30.0C	822	549	5:35:39	-67:36:2	LMC NEB,CL				N56.59	305	127	121	9045?	1340	5.32
487	1.0L	718	549	5:36:0	-69:41:40	N2033,2048					115	29	82	743	1260	6.34
488	10.0C	827	548	5:36:21	-67:28:54	N2029-40					108	30	55	1070?	182	7.50
489	3.0L	756	548	5:36:25	-68:56:48	N2042					224	9	196	215?	292	7.94
490	3.0L	851	548	5:36:32	-66:58:25	N2027?					216	5	194	104?	205	8.32
491	1.0L	871	545	5:36:54	-66:35:18	249322	-0:6	1:8	A0	6.44	129	30	83	924	1525	6.13
492	3.0L	872	546	5:36:54	-66:35:18	249322	-0:1	0:47	A0	6.44	291	55	194	2624	2500	5.59
493	10.0C	872	546	5:36:54	-66:35:18	249322	-0:3	1:12	A0	6.44	348	100	71	8442	1330	5.33
494	30.0C	872	544	5:36:54	-66:35:18	249322	-0:5	0:20	A0	6.44	418	126	170	16851	1297	5.36
495	3.0L	730	545	5:37:14	-69:28:19	N2055					304	214	199	7583	18300	3.55
496	30.0C	731	542	5:37:16	-69:28:31	N2055					442	2155	104	237987	71500	.99
497	10.0C	729	544	5:37:20	-69:30:9	N2055					310	698	46	53991	16200	2.61
498	1.0L	728	543	5:37:25	-69:30:13	N2055					140	38	88	1366	2260	5.70
499	30.0C	853	541	5:37:31	-66:57:16						171	21	132	420	31	9.43
500	30.0C	827	540	5:37:37	-67:29:38						137	5	122	100	13	10.38

## PAGE, CARRUTHERS, AND HECKATHORN

OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAO NO.	A R.A.	A DEC.	SPEC. TYPE	P MAG.	PEAK DEN.	NO. OF POINTS	BG	DENSITY VOLUME	CORR. V/E	UV MAG.
501	30.0C	697	541	5:37:39	-70: 9:56	N2066					130	10	105	200	17	10.09
502	30.0C	847	539	5:37:45	-67: 4:43	LMC NEB, CL					143	7	116	160?	16	10.16
503	30.0C	885	540	5:37:50	-66:18:44	N2050				N64	159	5	129	129?	15	10.23
504	1.0L	732	541	5:37:52	-69:25: 9	NO LMC					117	22	86	546	960	6.64
505	30.0C	815	538	5:37:53	-67:44:34	N2066					162	43	108	139?	81	8.39
506	30.0C	694	539	5:38: 9	-70:13:39	N2060					124	6	97	140?	15	10.23
507	3.0L	746	539	5:38:35	-69: 9: 5	N2060					222	4	199	90?	171	8.52
508	1.0L	282	559	5:38:39	-78:50:55	256214	-0:20	-0: 4	B9	6.14	186	27	70	1437	1820	5.94
509	3.0L	284	561	5:38:39	-78:50:55	256214	-0:45	0:50	B9	6.14	351	45	158	2804	2030	5.82
510	10.0C	284	559	5:38:39	-78:50:55	256214	-0:50	1:16	B9	6.14	362	86	35	8415	1240	5.41
511	30.0C	284	555	5:38:39	-78:50:55	256214	-0:11	0:27	B9	6.14	414	174	79	17532	1500	5.20
512	10.0C	748	535	5:39: 9	-69: 6: 7	N2060, 2070					332	194	46	15519	4260	4.06
513	30.0C	778	532	5:39:10	-68:29:24	N2060, 2070					137	4	110	97?	12	10.47
514	1.0L	747	534	5:39:12	-69: 6: 9	LMC NEB				N213	143	20	88	720	1190	6.40
515	30.0C	672	535	5:39:16	-70:41:12	N2060, 2070					126	20	78	609?	34	9.33
516	3.0L	748	536	5:39:17	-69: 6:28	LMC NEB, CL					312	42	199	2132	2260	5.69
517	1.0L	728	533	5:39:34	-69:29:56	LMC NEB, CL				N158	116	11	84	291	635	7.09
518	3.0L	729	534	5:39:39	-69:30:15	LMC NEB, CL				N158	268	38	191	1471	1470	6.17
519	30.0C	894	530	5:39:39	-66: 8:34	LMC NEB, CL					147	19	100	648?	36	9.27
520	30.0C	729	531	5:39:40	-69:30:45	LMC NEB, CL					334	602	98	64210	9400	3.20
521	10.0C	729	533	5:39:44	-69:29:53	LMC NEB, CL					232	248	41	16299	4260	4.06
522	10.0C	749	529	5:40:33	-69: 4:39	LMC NEB				N161	87	12	54	281?	71	8.53
523	3.0L	733	530	5:40:34	-69:25: 5	LMC NEB, CL				N158	240	31	195	891	935	6.67
524	3.0L	721	530	5:40:40	-69:40: 8	N2077-86					228	52	186	1461?	1450	6.19
525	30.0C	382	546	5:41: 4	-76:48:17						103	6	66	163?	16	10.16
526	30.0C	530	536	5:41:11	-73:41:23						141	22	116	440	30	9.47
527	30.0C	777	522	5:41:27	-68:30:17						99	16	59	473?	29	9.51
528	30.0C	634	527	5:41:38	-71:28:45	LMC NEB				N74, 175	99	4	71	94?	14	10.30
529	30.0C	704	523	5:41:48	-70:11:50	249336	0:14	2: 7	A0*	7.15	131	7	100	169?	16	10.16
530	3.0L	831	521	5:41:49	-67:25:30	249336?	-2: 0	3:15	A0*	7.15	224	11	193	263 L	307	7.88
531	10.0C	832	531	5:41:49	-67:25:30	249336?	0:11	1:10	A0*	7.15	94	30	47	935?L		
532	10.0C	830	521	5:41:49	-67:25:30	249336	1: 1	7:35	A0*	7.15	177	76	46	351? H		
533	10.0C	835	517	5:41:49	-67:25:30	249336?	0: 8	1:32	A0*	7.15	93	35	50	1100?L		
534	30.0C	831	519	5:41:49	-67:25:30	249336					350	125	142	9300 H	677	6.07
535	10.0C	720	523	5:42:13	-69:40:46	LMC CL					136	142	47	6870	1550	5.17
536	30.0C	704	521	5:42:17	-70:11:44	LMC NEB				N74, 175	144	8	98	241?	18	10.03
537	30.0C	868	517	5:42:19	-66:39: 5	NO LMC					139	10	106	269?	20	9.91
538	30.0C	534	532	5:42:20	-73:36:10	LMC NEB, CL					88	8	60	200?	19	9.97
539	30.0C	641	523	5:42:38	-71:21: 1	N2100				N214	175	38	74	1590	88	8.30
540	30.0C	742	518	5:42:40	-69:13:55	LMC NEB, CL					315	237	102	17905	2720	4.55
541	10.0C	640	525	5:42:42	-71:20: 8	LMC NEB, CL				N214	72	10	31	309	78	8.43
542	10.0C	742	520	5:42:44	-69:13: 2	N2100					148	135	45	5109	1180	5.46
543	30.0C	788	516	5:42:44	-68:16:16	LMC NEB, CL					171	14	124	412?	28	9.54
544	10.0C	887	515	5:43:15	-66:15:38	LMC NEB, CL				N72	207	88	46	4131?	840	5.83
545	10.0C	719	518	5:43:26	-69:41:46	LMC NEB					67	4	44	85?	42	9.10
546	30.0C	809	516	5:43:27	-67:51: 6	LMC NEB, CL				N70	253	46	103	2789	200	7.40
547	1.0C	808	514	5:43:30	-67:51:28	LMC NEB, CL				N70	112	24	42	969	170	7.58
548	10.0C	729	517	5:43:34	-69:29:11	LMC NEB, CL					84	4	59	92?	42	9.10
549	3.0L	808	514	5:43:35	-67:51:43	LMC NEB, CL				N70	210	6	189	118	187	8.42
550	30.0C	885	510	5:43:40	-66:21:23	LMC NEB, CL				N72	201	118	104	6361?	700	6.03



# NRL REPORT 8487

MENSEA, R.A. 05:50 DEC. -74:00 (4 FRAMES; SEE NRL REPORT 8206 FOR NEB VALUES)																
OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAO NO.	Δ R.A.	Δ DEC.	SPEC. TYPE	V MAG.	P MAG.	NO. OF POINTS	BG	DENSITY VOLUME	CORR. V/E	UV MAG.
551	30.0C	741	511	5:44:20	-69:14:49	LMC NEB				N66.167		197	102	9484	1250	5.40
552	10.0C	741	513	5:44:24	-69:13:55	LMC NEB				N66.167		83	51	211	58	8.75
553	10.0C	839	508	5:44:45	-67:13:42	LMC NEB,CL				N74		148	53	4897	1100	5.54
554	3.0L	839	508	5:44:47	-67:13:56	LMC NEB,CL				N74		231	28	785	830	6.80
555	30.0C	728	509	5:44:57	-69:30:59	LMC NEB						130	5	139?	15	10.23
556	30.0C	720	509	5:45: 3	-69:41: 1	LMC NEB				N168		126	4	97	100?	13
557	30.0C	850	503	5:45:15	-67: 1:59	NO LMC						170	13	116	437?	29
558	30.0C	414	530	5:45:38	-76: 7:15							98	6	66	158?	16
559	30.0C	715	504	5:46: 5	-69:47: 2							128	12	88	376?	24
560	30.0C	554	516	5:46:12	-73:10: 9							85	5	62	110?	15
561	30.0C	810	499	5:46:14	-67:43:35	249353	0: 4	-5:30	A0	8.13	.00	132	23	93	616 L	30
562	1.0L	735	502	5:46:39	-69:19:27							115	7	82	190?	515
563	10.0C	984	489	5:47:32	-64:24:10	NO LMC	0: 1	-0:10				90	41	42	1259	154
564	30.0C	985	487	5:47:32	-64:24:10	NO LMC	-0: 1	0: 9				206	50	124	1899	202
565	30.0C	558	511	5:47:35	-73: 4:45							117	22	60	813?	47
566	1.0L	483	522	5:47:42	-75: 2:17	NO	0:17	-0:21				109	6	68	182	515
567	3.0L	485	524	5:47:42	-75: 2:17	NO	0: 0	0:30				229	9	163	379	7.85
568	30.0C	465	521	5:47:42	-75: 2:17	NO	-0:18	-0:10				102	6	62	187?	17
569	30.0C	801	491	5:47:59	-67:59:48	NO LMC						163	133	103	3434	275
570	30.0C	561	509	5:48: 6	-73: 0:50							93	6	59	165?	18
571	30.0C	789	489	5:48:36	-68:14:37							138	42	90	1309?	72
572	30.0C	709	493	5:48:50	-69:53:45							122	18	85	485?	30
573	30.0C	394	521	5:49:14	-76:31:47							97	6	65	155?	16
574	10.0C	700	493	5:49:32	-70: 3:58	LMC NEB,CL*					N180	142	62	38	2839	525
575	3.0L	700	493	5:49:42	-70: 4: 5	LMC NEB,CL*					N180	229	26	185	752	750
576	30.0C	805	483	5:49:43	-67:54:11							113	4	90	88?	12
577	30.0C	700	490	5:49:43	-70: 4:48	LMC NEB,CL				N180		304	103	85	7768	780
578	1.0L	854	480	5:49:56	-66:54:49	249369	0: 9	0:39	B5	5.15	.00	404	92	86	9713	24000
579	3.0L	855	481	5:49:56	-66:54:49	249368	0:26	0:24	B5	5.15	.00	463	134	196	14030	18000
580	3.0C	856	479	5:49:56	-66:54:49	249368	-0:10	0:12	B5	5.15	.00	429	118	28	13948	7650
581	10.0C	855	481	5:49:56	-66:54:49	249368	0:24	0:30	B5	5.15	.00	459	232	49	28095 L	5750
582	30.0C	856	479	5:49:56	-66:54:49	249368	0: 9	0:44	B5	5.15	.00	445	340	112	44190 L	4650
583	30.0C	939	474	5:50:30	-65:16:19	249373	0: 6	-0:41	A0	7.96	.00	138	8	112	160 L	16
584	30.0C	792	479	5:50:48	-68:10: 2	LMC CL						175	205	90	7959	880
585	10.0C	791	481	5:50:52	-68:10:22	LMC CL						75	32	40	782	156
586	30.0C	578	497	5:50:57	-72:41: 0							91	7	63	162?	17
587	30.0C	579	494	5:51:44	-72:36:57							113	14	64	421?	27
588	30.0C	690	481	5:52: 7	-70:16:31							127	10	86	281?	21
589	30.0C	706	478	5:52:33	-69:56:10							113	4	86	100?	13
590	10.0C	791	472	5:52:53	-68: 9:30	LMC CL						72	40	38	1120	210
591	30.0C	789	469	5:52:53	-68:12:55	LMC CL						176	97	96	4332?	360
592	30.0C	778	468	5:53:19	-68:26:32							108	4	85	91?	10
593	30.0C	727	471	5:53:35	-69:29:17							116	4	87	104?	13
594	1.0L	256	526	5:53:38	-79:22:19	256248	-0:28	-0:15	B8	5.56	.00	251	35	72	2365	3050
595	3.0L	257	528	5:53:38	-79:22:19	256248	-0:53	-0:42	B8	5.56	.00	396	52	162	4120 L	3500
596	10.0C	257	525	5:53:38	-79:22:19	256248	-0:35	-0:20	B8	5.56	.00	121	37	80	12514 L	2130
597	30.0C	258	521	5:53:38	-79:22:19	256248	0: 5	0:11	B8	5.56	.00	423	266	80	26661 L	2420
598	30.0C	589	485	5:53:44	-72:23:34							110	16	64	476?	30
599	30.0C	785	484	5:54: 5	-68:17:23							125	9	91	252?	20
600	30.0C	594	482	5:54:27	-72:16:57							109	32	64	992?	57

PAGE, CARRUTHERS, AND HECKATHORN

HENSA, R.A. 05:50 DEC. -74:00 (4 FRAMES: SEE NRL REPORT 8206 FOR NEB VALUES)

OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAO NO.	A R.A.	A DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	BG	DENSITY VOLUME	CORR. V/E	UV MAG.
601	30.0C	906	452	5:55:7	-65:53:14	N2138?						223	51	93	2910	200	7.40
602	10.0C	905	454	5:55:10	-65:53:31	N2138?						95	26	38	938	174	7.55
603	30.0C	590	476	5:56:12	-72:21:18							114	11	64	355?	25	9.67
604	30.0C	73	527	5:56:29	-83:3:42	NO						135	11	65	439?	28	9.54
605	30.0C	788	453	5:56:30	-68:12:25	LMC NEB, CL					N75	191	36	90	1624	92	8.25
606	10.0C	788	455	5:56:32	-68:11:28	LMC NEB, CL					N75	81	12	38	378	85	8.33
607	30.0C	605	471	5:56:54	-72:1:58							88	7	67	140	17	10.09
608	30.0C	741	450	5:58:16	-69:10:36							143	18	83	661?	37	9.24
609	30.0C	612	465	5:58:20	-71:52:26							123	46	65	1515?	83	8.36
610	30.0C	773	441	5:59:20	-68:29:42	N2164						150	22	87	773	42	9.10
611	10.0C	773	443	5:59:36	-68:28:36	N2164						65	4	37	101	47	8.98
612	30.0C	621	457	5:59:57	-71:40:13							119	50	66	1533?	95	8.21
613	30.0C	631	448	6:2:1	-71:26:24							102	18	70	466?	102	9.47
614	30.0C	709	436	6:2:13	-69:48:43	N2187?						140	10	76	382	24	9.71
615	30.0C	493	467	6:2:50	-74:22:40	N2190?						177	25	63	1233	66	8.61
616	10.0C	492	469	6:2:58	-74:22:57	N2190?						74	8	27	253	72	8.51
617	30.0C	636	443	6:3:12	-71:20:38							108	11	70	309?	22	9.81
618	3.0L	367	487	6:3:50	-77:1:28	NO	0:26	-0:10				193	5	169	126?	176	8.49
619	10.0C	367	486	6:3:50	-77:1:28	NO	0:5	0:1				60	4	29	105	27	9.58
620	30.0C	368	485	6:3:50	-77:1:28	NO	-0:29	0:8				125	11	70	441	25	9.67
621	30.0C	481	463	6:5:44	-75:1:56	N2203?						163	14	62	726	41	9.13
622	10.0C	460	466	6:5:53	-75:2:12	N2203?						202	4	27	223	70	8.55
623	3.0L	490	456	6:6:4	-75:2:8	N2203?						73	7	27	223	70	8.55
624	1.0L	893	396	6:6:5	-66:1:57	249448	0:39	2:9	89	5.83	.00	133	22	93	654	160	8.59
625	3.0L	894	397	6:6:5	-66:1:57	249448	0:44	1:47	89	5.83	.00	294	44	208	1972	1740	5.99
626	10.0C	894	397	6:6:5	-66:1:57	249448	0:44	1:31	89	5.83	.00	356	90	40	8962	1400	5.28
627	30.0C	895	395	6:6:5	-66:1:57	249448	0:41	1:45	89	5.83	.00	417	140	95	15829	1540	5.17
628	30.0C	661	421	6:7:29	-70:46:7							142	105	74	4004?	295	6.98
629	1.0L	313	482	6:8:1	-78:6:47	NO	0:39	0:27				102	4	71	106	425	7.53
630	3.0L	314	484	6:8:1	-78:6:47	NO	0:18	-0:6				223	7	162	283	263	8.05
631	10.0C	314	483	6:8:1	-78:6:47	NO	-0:9	-0:12				113	13	30	596	76	8.46
632	30.0C	315	482	6:8:1	-78:6:47	NO	-0:46	-0:8				228	21	76	1321	67	8.59
633	10.0C	932	385	6:8:10	-65:14:13	NO	0:1	-0:7				69	7	43	161	55	8.81
634	30.0C	933	383	6:8:10	-65:14:13	NO	-0:1	0:6				151	31	101	1109	48	8.96
635	1.0L	751	400	6:9:3	-68:49:58	249461	0:21	1:8	89	5.21	.00	281	44	88	3178 H	4700	4.91
636	3.0L	752	402	6:9:3	-68:49:58	249461	0:12	0:35	89	5.21	.00	422	60	202	5205	5200	4.80
637	3.0C	753	359	6:9:3	-68:49:58	249461	-0:10	-0:8	89	5.21	.00	309	64	22	5686	2600	4.60
638	10.0C	752	401	6:9:3	-68:49:58	249461	0:19	0:28	89	5.21	.00	418	134	37	13189	2300	4.74
639	30.0C	753	399	6:9:3	-68:49:58	249461	0:15	0:42	89	5.21	.00	420	244	88	25104	2400	4.69
640	30.0C	672	413	6:9:5	-70:30:59							123	97	81	2520?	126	7.90
641	30.0C	125	499	6:10:44	-81:58:52	258432	-0:17	-1:34	A0	8.28	.00	129	27	85	683 L	33	9.37
642	30.0C	955	366	6:11:44	-65:20:46							143	15	97	633?	30	9.47
643	30.0C	918	367	6:11:45	-65:29:30							142	8	97	238?	18	10.03
644	30.0C	690	396	6:12:19	-70:5:32							115	34	82	890?	41	9.13
645	3.0L	360	465	6:12:44	-77:5:29	256277	-0:18	-0:40	A0	6.89	.00	208	5	176	125 L	180	8.46
646	10.0C	360	463	6:12:44	-77:5:29	256277	-0:17	-0:38	A0	6.89	.00	208	23	30	1024 L	153	7.69
647	30.0C	361	460	6:12:44	-77:5:29	256277	-0:6	-0:11	A0	6.89	.00	257	41	74	2889 L	123	7.93
648	30.0C	697	392	6:13:1	-68:56:3							113	8	90	174?	16	10.16
649	30.0C	680	376	6:13:32	-68:11:27	NO						144	17	95	536?	27	9.58
650	3.0L	116	501	6:14:30	-82:8:36	258436	-1:13	-1:28	B8	7.61	.00	171	14	137	398 L	280	7.98

# NRL REPORT 8487

HENSA, R.A. 05:50 DEC. -74:00 (4 FRAMES; SEE NRL REPORT 8206 FOR NEB VALUES)																	
OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAD NO.	Δ R.A.	Δ DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	BG	DENSITY VOLUME	CORR. V/E	UV MAG.
651	10.0C	115	497	6:14:30	-82: 8:36	258438	-0:24	-2:14	88	7.61	.00	129	47	31	2205	308	6.93
652	30.0C	116	493	6:14:30	-82: 8:36	258438	0:25	-1:35	88	7.61	.00	271	88	74	6301	385	6.69
653	3.0L	876	351	6:15:37	-66:16:24	249497	0:44	2:54	89	7.34	.00	267	22	216	731	710	6.97
654	10.0C	876	351	6:15:37	-66:16:24	249497	0:44	2:26	89	7.34	.00	230	67	40	4880	685	6.06
655	30.0C	877	349	6:15:37	-66:16:24	249497	0:41	2:37	89	7.34	.00	389	97	97	9911	855	5.81
656	1.0L	520	418	6:15:54	-73:36:30	256286	0:32	-0:17	89	6.80	.00	146	14	78	579	860	6.76
657	3.0L	521	420	6:15:54	-73:36:30	256286	0:19	-0:52	89	6.80	.00	307	24	179	1389	985	6.61
658	10.0C	522	418	6:15:54	-73:36:30	256286	0:10	0: 8	89	6.80	.00	248	49	30	3780	475	6.46
659	30.0C	522	416	6:15:54	-73:36:30	256286	0: 5	-0:53	89	6.80	.00	369	106	70	8493	560	6.28
660	30.0C	714	377	6:15:56	-69:33: 6							118	8	91	184?	16	10.16
661	30.0C	609	395	6:16:38	-71:45:22							102	4	74	93?	14	10.30
662	30.0C	614	389	6:17:58	-71:37:48							111	6	75	181?	17	10.09
663	30.0C	528	405	6:18:53	-73:27:25							96	4	72	89?	12	10.47
664	3.0L	814	387	6:19: 3	-71:35:33	LMC NEB					N221	223	24	188	588	700	6.98
665	10.0C	590	391	6:19: 6	-72: 6:35	256290	0: 7	0: 6	A0	7.96	.00	74	9	30	281 L	45	9.03
666	30.0C	591	388	6:19: 6	-72: 6:35	256290	0:20	-0:42	A0	7.96	.00	181	23	76	1105 L	54	8.83
667	30.0C	882	333	6:19:24	-66: 5:22							139	12	100	326?	21	9.86
668	30.0C	878	331	6:19:57	-66: 9:46							123	7	98	163?	15	10.23
669	30.0C	801	339	6:20:41	-67:41:22							124	8	96	182?	16	10.16
670	30.0C	635	372	6:20:50	-71: 9:30							111	56	77	1566?	90	8.27
671	30.0C	748	346	6:21:11	-68:45:46							122	8	95	182?	16	10.16
672	30.0C	724	346	6:22:18	-69:15:13							207	41	94	2348?	152	7.70
673	3.0L	643	369	6:23:46	-70:55: 0	256298?	-1:49	-1:45	A2	8.06	.00	214	4	190	95 L	156	8.62
674	30.0C	644	367	6:23:46	-70:55: 0	256298?	-2: 8	-2: 9	A2	8.06	.00	178	68	78	2816	134	7.84
675	30.0C	637	361	6:23:46	-70: 5: 0	256298?	-0:15	-9:15	A2	8.06	.00	141	92	81	3081	153	7.69
676	3.0L	853	318	6:23:51	-66:34:50	NO	-0: 8	0: 8				240	5	223	86	179	8.47
677	10.0C	853	317	6:23:51	-66:34:50	NO	0:11	0:37				81	5	41	156	34	9.33
678	30.0C	854	315	6:23:51	-66:34:50	NO	-0: 2	-0:42				173	12	99	529	26	9.63
679	30.0C	787	311	6:27:10	-67:51:33							131	7	98	190?	17	10.09
680	30.0C	365	417	6:27:47	-76:51:36							109	62	78	1452?	66	8.61
681	10.0C	589	355	6:28:45	-71:59:32	NO*	-0: 4	-0:13				62	4	32	102	37	9.24
682	30.0C	590	352	6:28:45	-71:59:32	NO*	0: 5	0:14				147	14	81	562	39	9.18
683	30.0C	798	301	6:28:48	-67:36:40							130	13	98	327?	21	9.86
684	10.0C	533	371	6:28:49	-73:12: 0	NO*	-0: 5	-0:13				73	8	32	234	50	8.91
685	30.0C	534	368	6:28:49	-73:12: 0	NO*	0: 5	0:14				165	20	77	909	50	8.91
686	30.0C	802	299	6:29: 5	-67:32:28							122	6	99	129?	15	10.23
687	30.0C	746	310	6:29:13	-68:40:13							152	6	107	177?	17	10.09
688	1.0L	257	439	6:30:23	-79: 5: 2							99	5	72	112?	440	7.49
689	3.0L	343	419	6:30:34	-77:15:18	256308	-0: 4	-1:25	A0	6.98	.00	209	5	176	129 L	186	8.43
690	10.0C	343	417	6:30:34	-77:15:18	256308	-0: 3	-1:35	A0	6.98	.00	118	22	32	1019 L	150	7.71
691	30.0C	344	413	6:30:34	-77:15:18	256308	0:30	-0:49	A0	6.98	.00	271	41	78	3095 L	143	7.77
692	3.0L	733	308	6:30:57	-68:52:30	NO*	-0: 1	-0:31				268	13	221	419	475	7.41
693	10.0C	734	307	6:30:57	-68:52:30	NO*	0: 3	0:12				197	36	40	2230	292	6.99
694	30.0C	735	305	6:30:57	-68:52:30	NO*	-0: 1	0:20				350	57	102	4791	294	6.98
695	30.0C	639	330	6:31: 0	-70:54:43							136	8	90	273?	19	9.97
696	30.0C	820	283	6:31:47	-67: 7: 2							125	7	101	159?	15	10.23
697	30.0C	236	435	6:32:53	-79:31:50							120	6	81	178?	17	10.09
698	30.0C	668	301	6:35:46	-70:11: 7							136	72	99	1862?	95	8.21
699	3.0L	633	306	6:37:54	-70:52:26	NO*	-0: 5	0:16				262	14	211	471	485	7.38
700	10.0C	633	305	6:37:54	-70:52:26	NO*	-0: 2	-0:21				163	28	37	1609	208	7.36

# PAGE, CARRUTHERS, AND HECKATHORN

MENSA, R.A. 05:50 DEC. -74:00 (4 FRAMES; SEE NRL REPORT 8206 FOR NEB VALUES)

OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAO NO.	Δ R.A.	Δ DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	BG	DENSITY VOLUME	CORR. V/E	UV MAG.
701	30.0C	634	302	6:37:54	-70:52:26	NO*	0: 7	0: 6				304	53	97	3538	186	7.48
702	30.0C	402	374	6:38:40	-75:53:35	NO						126	7	79	2317	19	9.97
703	30.0C	846	242	6:38:46	-66:28:18							136	4	108	1027	12	10.47
704	30.0C	175	436	6:39: 2	-80:45: 3							135	22	83	7647	35	9.30
705	30.0C	318	397	6:39:15	-77:42:50							109	5	83	1147	14	10.30
706	30.0C	884	258	6:39:46	-65:41:44							149	29	112	7957	39	9.18
707	30.0C	309	398	6:39:51	-77:54: 3							119	71	82	19947	100	8.16
708	30.0C	669	275	6:41:41	-70: 2:47							133	23	98	6247	30	9.47
709	30.0C	898	214	6:41:44	-65:21:42							162	14	127	3647	24	9.71
710	30.0C	321	389	6:41:56	-77:36:24							123	24	100	480	26	9.63
711	10.0C	283	402	6:42:25	-78:23:27	256327	-0:17	-1:31	B9	8.80	.00	72	10	35	270 L	63	8.66
712	30.0C	284	398	6:42:25	-78:23:27	256327	0:17	-0:41	B9	8.80	.00	175	24	83	1147 L	60	8.71
713	3.0L	686	269	6:42:28	-69:39:21	249630	0: 3	-1:40	A0	7.56	.00	244	5	227	1147L	217	8.26
714	10.0C	687	268	6:42:28	-69:39:21	249630	0: 9	1:17	A0	7.56	.00	114	33	40	1130 L	164	7.62
715	30.0C	688	266	6:42:28	-69:39:21	249630	0: 4	1:22	A0	7.56	.00	250	74	108	3428	196	7.42
716	1.0L	776	240	6:42:33	-67:47:31	249631	0:19	3:21	A0	6.86	.00	132	5	107	112 L	410	7.57
717	3.0L	777	241	6:42:33	-67:47:31	249631	0:25	2:57	A0	6.86	.00	290	20	238	678	720	6.95
718	10.0C	777	240	6:42:33	-67:47:31	249631	0:34	2:15	A0	6.86	.00	237	54	45	3944	510	6.38
719	30.0C	779	238	6:42:33	-67:47:31	249631	0:26	3:31	A0	6.86	.00	385	79	113	7273	615	6.17
720	3.0L	756	247	6:43: 3	-68:11: 0	NO*	-0: 4	0:27				275	10	239	286	360	7.71
721	10.0C	756	246	6:43: 3	-68:11: 0	NO*	0: 4	-0:15				169	38	44	2138	282	7.02
722	30.0C	757	244	6:43: 3	-68:11: 0	NO*	0: 0	-0:12				340	58	109	4939	330	6.85
723	1.0L	881	210	6:43:17	-65:36:56	NO	-0: 1	0:26				139	10	116	2477	1086	6.50
724	3.0L	881	212	6:43:17	-65:36:56	NO	-0: 2	-1:39				307	50	263	1482	1520	6.14
725	10.0C	883	211	6:43:17	-65:36:56	NO	0: 4	0: 0				196	96	46	5851	917	5.74
726	30.0C	885	209	6:43:17	-65:36:56	NO	-0: 2	1:13				397	154	120	149420	975	5.67
727	10.0C	705	258	6:43:32	-69:13: 5	NO*	-0: 5	-0:13				105	17	42	661	105	8.10
728	30.0C	707	255	6:43:32	-69:13: 5	NO*	0: 4	0:12				237	32	108	1862	96	8.20
729	3.0L	843	218	6:44: 7	-66:23:17	NO*	-0: 5	-0:19				281	8	252	202	334	7.79
730	10.0C	844	217	6:44: 7	-66:23:17	NO*	0: 4	0: 8				139	54	45	2497	496	6.41
731	30.0C	845	215	6:44: 7	-66:23:17	NO*	0: 0	0:11				322	84	118	6188	525	6.35
732	10.0C	782	230	6:44:54	-67:36:21	NO	0: 4	-0:37				96	17	43	514	91	8.26
733	30.0C	784	228	6:44:54	-67:36:21	NO	-0: 4	0:37				206	32	110	15897	78	8.43
734	30.0C	621	269	6:46:53	-70:57:54							153	13	112	3967	24	9.71
735	30.0C	567	285	6:47:42	-72: 7:54							137	5	105	1242	15	10.23
736	30.0C	756	217	6:48:48	-68: 5:19							148	13	111	3502	22	9.81
737	30.0C	759	213	6:49:26	-68: 0:15							169	62	112	22137	126	7.90
738	30.0C	695	228	6:50:22	-69:18:43							148	11	113	2897	20	9.91
739	30.0C	757	204	6:51:20	-68: 0:44							167	50	112	16387	85	8.33
740	10.0C	611	256	6:51:21	-71: 4:40		0: 6	0:34				83	28	43	8147	130	7.87
741	30.0C	611	254	6:51:21	-71:04:40		-0: 6	-0:35				191	37	112	1940	105	8.10
742	30.0C	360	348	6:51:34	-76:35:55							118	15	90	3417	22	9.81
743	1.0L	616	250	6:52: 1	-70:54: 5	256344	-0: 0	0:21	B8	5.52	.00	349	50	104	4290	7700	4.37
744	3.0L	617	252	6:52: 1	-70:54: 5	256344	-0: 9	-0:26	B8	5.52	.00	441	73	235	6451	7550	4.39
745	10.0C	618	251	6:52: 1	-70:54: 5	256344	-0:11	-0: 6	B8	5.52	.00	434	162	45	16276	3070	4.42
746	30.0C	618	248	6:52: 1	-70:54: 5	256344	0: 2	-0:50	B8	5.52	.00	434	319	117	29696 L	3600	4.25
747	30.0C	548	273	6:52:35	-72:27: 4							149	9	111	2537	19	9.97
748	30.0C	442	312	6:53:32	-74:45:33							129	14	97	1097	14	10.30
749	30.0C	371	338	6:53:40	-76:18:43							126	14	98	2967	20	9.91
750	30.0C	373	336	6:54: 6	-76:15:30							138	12	93	3657	21	9.86

HNSA. R.A. 05:50 DEC. -74:00 (4 FRAMES; SEE NRL REPORT 8206 FOR NEB VALUES)

OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAD NO.	A R.A.	A DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	BG	DENSITY VOLUME	CORR. V/E	UV MAG.
751	3.0L	690	215	6:54:17	-69:17:25							292	27	245	885?	900	6.71
752	30.0C	343	345	6:54:38	-76:54:51							124	18	93	451?	24	9.71
753	30.0C	382	331	6:54:42	-76:2:43							131	16	96	428?	24	9.71
754	30.0C	539	269	6:54:43	-72:35:42							136	4	112	87?	11	10.56
755	3.0L	635	229	6:55:44	-70:25:21	256351	-0:5	0:1	A2	7.22	.00	273	7	244	174	291	7.94
756	10.0C	636	227	6:55:44	-70:25:21	256351	0:9	0:43	A2	7.22	.00	177	29	46	1707	214	7.33
757	30.0C	637	225	6:55:44	-70:25:21	256351	0:3	0:44	A2	7.22	.00	331	44	117	3505	212	7.34
758	30.0C	339	343	6:55:50	-76:58:43							120	8	90	200?	17	10.09
759	1.0L	354	339	6:55:56	-76:35:21		0:15	0:33				110	34	82	100	400	7.59
760	3.0L	355	340	6:55:56	-76:35:21		0:20	0:9				232	8	185	285	307	7.88
761	10.0C	356	339	6:55:56	-76:35:21		-0:4	0:26				133	23	35	11590	182	7.50
762	30.0C	356	338	6:55:56	-76:35:21		-0:29	-1:8				290	146	92	78180	197	7.42
763	10.0C	392	322	6:56:51	-75:46:38		0:6	0:1				84	19	35	5300	162	7.63
764	30.0C	393	320	6:56:51	-75:46:38		-0:5	0:1				192	180	91	82220	77	8.44
765	10.0C	361	334	6:56:56	-76:26:51							64	4	39	96	47	8.98
766	10.0C	358	331	6:58:13	-76:29:4		0:6	0:1				73	5	36	138	53	8.85
767	30.0C	359	329	6:58:13	-76:29:4		-0:5	0:1				175	27	89	1193	50	8.91
768	3.0L	578	241	6:58:26	-71:36:20		-0:5	0:27				260	6	234	138	250	8.11
769	10.0C	579	239	6:58:26	-71:36:20		0:6	0:13				105	15	47	513	89	8.28
770	30.0C	580	237	6:58:26	-71:36:20		-0:1	0:14				237	25	121	1333?	66	8.13
771	10.0C	686	196	6:58:31	-69:17:5		0:3	0:0				93	7	45	246	41	9.13
772	30.0C	687	194	6:58:31	-69:17:5		-0:2	0:1				215	12	112	641	34	9.33
773	1.0L	520	262	6:58:38	-72:51:2		0:10	0:23				168	13	97	546	800	6.84
774	3.0L	521	263	6:58:38	-72:51:2		0:16	0:0				313	12	219	711	605	7.14
775	10.0C	522	263	6:58:38	-72:51:2		-0:8	-0:13				233	23	42	1856	220	7.30
776	30.0C	523	261	6:58:38	-72:51:2		-0:16	-0:12				334	34	105	2899	189	7.46
777	3.0L	497	272	6:59:8	-73:22:32		0:4	-0:18				248	8	216	209	306	7.89
778	10.0C	498	271	6:59:8	-73:22:32		-0:6	-0:5				110	15	40	620	101	8.15
779	30.0C	499	268	6:59:8	-73:22:32		0:3	0:23				239	28	107	1682	83	8.36
780	1.0L	226	377	6:59:45	-79:21:0	256355	-0:7	1:31	A0	5.51	.00	131	18	73	654	970	6.63
781	3.0L	227	379	6:59:45	-79:21:0	256355	-0:28	0:39	A0	5.51	.00	288	39	170	2031	1600	6.08
782	10.0C	227	376	6:59:45	-79:21:0	256355	-0:11	0:36	A0	5.51	.00	318	61	35	5553	770	5.93
783	30.0C	228	372	6:59:45	-79:21:0	256355	0:24	1:32	A0	5.51	.00	398	109	87	11072 L	925	5.73
784	30.0C	788	150	7:0:5	-67:9:5							149	4	121	95?	13	10.38
785	30.0C	363	322	7:0:5	-76:22:24							122	5	90	142?	15	10.23
786	30.0C	631	206	7:0:36	-70:25:8							141	4	119	62?	11	10.56
787	30.0C	293	343	7:2:2	-77:52:45							117	4	93	88?	12	10.47
788	1.0L	352	321	7:2:17	-76:24:48		0:19	-5:23				111	5	81	126	450	7.47
789	3.0L	353	323	7:2:17	-76:24:48		0:4	-6:16				234	10	191	291?	325	7.82
790	10.0C	362	317	7:2:17	-76:24:48		-0:2	5:7				80	18	39	4550	75	8.47
791	30.0C	364	315	7:2:17	-76:24:48		-0:22	6:31				198	8	91	3810	71	8.53
792	10.0C	354	321	7:2:21	-76:29:45							130	31	35	14370	201	7.39
793	30.0C	355	319	7:2:21	-76:29:45							317	53	91	58400	257	7.13
794	10.0C	625	197	7:3:38	-70:27:54	256366	0:10	0:42	A0	7.66	.00	96	14	47	483 L	84	8.35
795	30.0C	626	195	7:3:38	-70:27:54	256366	0:4	0:41	A0	7.66	.00	241	26	128	1406 L	74	8.48
796	1.0L	353	315	7:3:46	-76:27:50		0:22	1:10				122	6	83	179	490	7.37
797	3.0L	354	317	7:3:46	-76:27:50		0:7	0:17				255	9	192	368	380	7.65
798	10.0C	354	316	7:3:46	-76:27:50		-0:8	-0:44				161	35	35	18320	227	7.26
799	30.0C	355	314	7:3:46	-76:27:50		-0:20	-0:44				13708	199	91	13708	199	7.41
800	30.0C	360	309	7:4:26	-76:20:23							169	56	98	2269?	117	7.98

# PAGE, CARRUTHERS, AND HECKATHORN

MENSA, R.A. 05:50 DEC. -74:00 (4 FRAMES; SEE NRL REPORT 8206 FOR NEB VALUES)

OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAO NO.	A R.A.	A DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	BG	DENSITY VOLUME	CORR. V/E	UV MAG.
801	30.0C	502	243	7: 5:27	-73: 8:53							158	7	114	195?	18	10.03
802	3.0L	719	148	7: 6: 8	-68:22:34							307	21	267	590?	730	6.94
803	30.0C	774	123	7: 6:30	-67:16: 5							152	6	121	163?	17	10.09
804	1.0L	742	127	7: 7:50	-67:51:20	249747	0:17	2:11	88	7.88	.00	155	41	125	1022	1610	6.07
805	3.0L	743	128	7: 7:50	-67:51:20	249747	0:23	1:47	88	7.88	.00	337	73	281	2387 H	1910	5.89
806	10.0C	743	128	7: 7:50	-67:51:20	249747	0:21	0:12	88	7.88	.00	223	80	50	5326 H	713	6.01
807	30.0C	745	125	7: 7:50	-67:51:20	249747	0:24	1:45	88	7.88	.00	403	112	123	11202	829	5.85
808	3.0L	518	226	7: 8:27	-72:40:33	NO	0: 1	1:08				269	7	232	191	304	7.89
809	10.0C	518	225	7: 8:27	-72:40:33	NO	0: 0	0: 1				130	17	42	783	115	8.00
810	30.0C	519	223	7: 8:27	-72:40:33	NO	-0: 1	-1: 9				264	26	115	1714	89	8.28
811	30.0C	301	318	7: 9:33	-77:31:58							132	32	107	640	32	9.40
812	30.0C	281	323	7:11:13	-77:56:58							132	11	86	361?	21	9.86
813	3.0L	700	130	7:11:27	-68:37:24							305	10	277	249?	415	7.55
814	3.0L	334	301	7:11:47	-76:43:55	NO	0:12	-1: 9				226	5	197	126	202	8.34
815	10.0C	334	300	7:11:47	-76:43:55	NO	-0: 4	-0: 1				112	19	40	869?	127	7.90
816	30.0C	334	298	7:11:47	-76:43:55	NO	-0: 7	1:11				241	25	97	2223	111	8.04
817	30.0C	324	302	7:11:48	-76:58:37	NO						183	89	89	4579?	266	7.09
818	30.0C	317	305	7:11:49	-77: 8:11							139	28	90	1086?	48	8.96
819	30.0C	294	314	7:12: 3	-77:37:60	NO						144	8	104	219	18	10.03
820	30.0C	218	344	7:12:36	-79:20:48	256381	0:39	1:45	A0	7.86	.00	127	13	86	391 L	22	9.81
821	30.0C	750	100	7:12:52	-67:35:53							233	43	129	2424?	147	7.74
822	10.0C	714	116	7:13:12	-68:19: 9	NO	-0:13	0: 7				80	5	53	125	49	8.93
823	30.0C	714	112	7:13:12	-68:19: 9	NO	0:13	-0: 7				169	29	127	805	44	9.05
824	30.0C	335	291	7:13:31	-76:40:54							175	38	112	1045?	51	8.89
825	3.0L	727	106	7:13:58	-67:58:45							324	9	296	216?	400	7.59
826	30.0C	319	297	7:14:15	-77: 1:47	NO						255	74	90	5206?	318	6.89
827	10.0C	294	310	7:14:24	-77:34:52							87	6	34	160?	57	8.77
828	30.0C	315	298	7:14:25	-77: 6:48	NO						235	106	94	7045?	525	6.35
829	3.0L	317	300	7:14:52	-77: 0:17	NO	0: 1	-1:24				215	4	188	99	168	8.54
830	10.0C	318	298	7:14:52	-77: 0:17	NO	-0: 5	-0:56				104	36	40	1140?	168	7.59
831	30.0C	321	294	7:14:52	-77: 0:17	NO	0: 5	2:21				207	54	90	3650	187	7.47
832	3.0L	288	312	7:15:11	-77:39:53							209	5	183	118?	181	8.46
833	1.0L	313	299	7:15:12	-77: 3: 5	NO	0: 4	-1:36				115	7	81	203	520	7.31
834	3.0L	314	301	7:15:12	-77: 3: 5	NO	-0:11	-2:33				240	14	189	480	435	7.50
835	10.0C	314	299	7:15:12	-77: 3: 5	NO	-0: 8	-3:13				108	22	40	983?	140	7.79
836	30.0C	322	291	7:15:12	-77: 3: 5	NO?	0:16	7:20				178	26	104	853	40	9.16
837	30.0C	617	145	7:15:34	-70:18:24							156	5	129	117?	14	10.30
838	10.0C	289	309	7:15:37	-77:39:48	NO*	-0: 4	-0:15				112	23	35	9780	142	7.77
839	30.0C	290	306	7:15:37	-77:39:48	NO*	0: 4	0:14				245	112	90	48000	113	8.02
840	1.0L	295	305	7:15:42	-77:29:57	NO	0:22	1:38				131	8	82	270	575	7.20
841	3.0L	286	307	7:15:42	-77:29:57	NO	0: 6	0:40				274	11	187	521	440	7.49
842	10.0C	286	306	7:15:42	-77:29:57	NO	-0:13	-0:33				176	22	43	1089	148	7.73
843	30.0C	296	304	7:15:42	-77:35:39	NO	-0:16	-1:44				282	24	91	2499	116	7.99
844	3.0L	290	305	7:17:12	-77:35:39	NO	0:17	0:39				225	8	186	228	280	7.98
845	30.0C	291	302	7:17:12	-77:35:39	NO	-0:16	-0:39				275	220	89	14544?	1330	5.33
846	10.0C	316	290	7:17:21	-76:59:50	NO	0: 6	0: 2				69	8	34	225	66	8.61
847	30.0C	317	288	7:17:21	-76:59:50	NO	-0: 6	-0: 1				139	12	91	393	22	9.81
848	30.0C	556	165	7:17:58	-71:34:19							159	5	125	141?	15	10.23
849	3.0L	610	139	7:18:19	-70:20:21							291	7	265	160?	266	8.04
850	3.0L	713	89	7:18:34	-68: 7:32							340	5	318	107?	247	8.12

MENSA, R.A. 05:50 DEC. -74:00 (4 FRAMES: SEE NRL REPORT 8206 FOR NEB VALUES)

OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAO NO.	A R.A.	A DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	BG	DENSITY VOLUME	CORR. V/E	UV MAG.
851	1.0L	293	296	7:19:0	-77:27:9	NO	0:10	0:54				113	6	88	129	438	7.49
852	3.0L	294	298	7:19:0	-77:27:9	NO	0:15	0:28				229	11	196	282	286	7.96
853	10.0L	294	297	7:19:0	-77:27:9	NO	-0:24	-1:21				120	69	36	3235?	440	6.54
854	1.0L	288	295	7:20:3	-77:30:42	NO	0:18	-0:38				118	6	82	168	470	7.42
855	3.0L	291	297	7:20:3	-77:30:42	NO	-0:18	0:38				229	10	188	314?	330	7.80
856	30.0C	419	226	7:20:38	-74:36:18							144	6	107	160?	16	10.16
857	3.0L	635	115	7:20:42	-69:42:45							335	25	282	926?	1060	6.53
858	3.0L	286	296	7:20:57	-77:35:8	NO						214	4	188	97?	165	8.56
859	30.0C	572	141	7:21:33	-71:6:46							157	10	131	215?	20	9.91
860	30.0C	567	140	7:22:20	-71:11:52							159	27	128	635?	37	9.24
861	30.0C	572	133	7:23:9	-71:2:58							157	18	127	448?	28	9.54
862	3.0L	676	80	7:23:51	-68:44:40							333	7	311	137?	302	7.90
863	30.0C	598	116	7:24:3	-70:27:19							166	18	134	427?	28	9.54
864	10.0C	586	123	7:24:13	-70:40:55	NO*	-0:3	-0:13				98	18	51	598	128	7.89
865	30.0C	588	120	7:24:13	-70:40:55	NO*	0:4	0:13				226	66	130	279	132	7.85
866	3.0L	686	71	7:24:45	-68:29:44							340	8	313	191?	382	7.64
867	30.0C	556	133	7:25:8	-71:22:12	256408	0:5	1:52	A2	6.52	.00	177	15	131	456 L	29	9.51
868	30.0C	606	104	7:25:42	-70:13:26							174	38	130	1052?	57	8.77
869	1.0L	597	109	7:25:44	-70:22:34	NO	-0:1	1:36				153	4	126	99	400	7.59
870	3.0L	598	111	7:25:44	-70:22:34	NO	0:5	1:11				340	6	289	188?	353	7.73
871	10.0C	598	110	7:25:44	-70:22:34	NO	-0:2	-0:46				174	16	54	889	252	7.15
872	30.0C	561	122	7:25:44	-70:22:34	NO	-0:1	-2:0				289	95	130	4042	248	7.17
873	30.0C	561	122	7:27:3	-71:10:17							159	9	133	202?	20	9.91
874	30.0C	361	228	7:28:49	-75:41:52							128	8	97	208?	17	10.09
875	1.0L	353	223	7:31:59	-75:42:50	NO	0:6	0:30				122	4	87	131	430	7.51
876	3.0L	354	225	7:31:59	-75:42:50	NO	-0:6	-0:31				278	9	209	382?	388	7.63
877	10.0C	296	242	7:35:19	-76:58:17	256426	0:36	0:4	A0	7.31	.00	102	22	38	856 L	132	7.85
878	30.0C	298	238	7:35:19	-76:58:17	256426	0:51	2:16	A0	7.31	.00	250	40	100	2579 L	128	7.89
879	1.0L	413	168	7:36:24	-74:9:44	256428	0:38	0:25	B9	6.46	.00	163	21	103	790	1411	6.22
880	3.0L	414	169	7:36:24	-74:9:44	256428	0:35	1:5	B9	6.46	.00	389	47	244	2501	2270	5.70
881	10.0C	416	165	7:36:24	-74:9:44	256428	0:32	-0:29	B9	6.46	.00	367	64	46	6623	990	5.65
882	30.0C	416	165	7:36:24	-74:9:44	256428	0:39	-0:1	B9	6.46	.00	410	122	115	11534	1240	5.41
883	3.0L	314	227	7:37:41	-76:29:55	NO	0:14	2:13				225	5	207	112?	200	8.35
884	10.0C	314	226	7:37:41	-76:29:55	NO	-0:6	-0:29				87	8	40	251	37	9.24
885	30.0C	314	224	7:37:41	-76:29:55	NO	-0:7	-1:43				191	17	103	776	36	9.27
886	10.0C	578	53	7:40:7	-70:18:0	NO*	0:3	0:6				104	26	62	765	117	7.98
887	30.0C	579	51	7:40:7	-70:18:0	NO*	-0:3	-0:6				242	51	141	2618	159	7.65
888	10.0C	479	107	7:42:14	-72:28:15	NO*	0:11	0:25				90	26	49	806	124	7.92
889	30.0C	480	106	7:42:14	-72:28:15	NO*	-0:10	-0:24				289	52	122	2572	150	7.71
890	3.0L	542	61	7:43:21	-70:55:49	N2466?						397	17	350?	570	1000	6.59
891	3.0L	500	89	7:43:32	-71:55:30	NO	-0:3	1:19				314	5	296	119?	258	8.07
892	30.0C	501	86	7:43:32	-71:55:30	NO	0:2	-1:19				154	4	127	90?	12	10.47
893	30.0C	502	59	7:43:37	-70:59:50	N2466?						248	100	134	5407	690	6.05
894	10.0C	541	59	7:43:48	-70:57:56	N2466?						163	84	60	4291	910	5.75
895	1.0L	540	58	7:43:56	-70:56:16	N2466?						210	50	144	1942	4850	4.87
896	30.0C	405	138	7:45:9	-74:7:24	NO						155	13	117	378?	23	9.76
897	30.0C	59	351	7:45:31	-82:14:14							133	5	100	130?	15	10.23
898	30.0C	490	83	7:45:48	-72:6:37							170	7	126	205?	19	9.97
899	30.0C	96	327	7:46:6	-81:22:21							112	4	90	85?	12	10.47
900	30.0C	407	124	7:47:45	-73:57:55	256448	0:33	0:10	A0	8.27	.00	146	7	120	157 L	17	10.09

OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAT NO.	Δ R.A.	Δ DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	BG	DENSITY VOLUME	CORR. V/E	UV MAG.
MENSA, R.A. 05:50 DEC. -74:00 (4 FRAMES; SEE NRL REPORT 8206 FOR NEB VALUES)																	
901	3.0L	556	29	7:48:	-70:26:27							370	6	350?	160	364	7.70
902	30.0C	552	23	7:49:27	-70:31:44							253	130	145	483?	32	9.40
903	3.0L	334	165	7:51:34	-75:32:22							302	37	233	139??	1270	6.33
904	3.0L	526	26	7:53:	-70:53:24							363	4	350?	100	250	8.11
905	30.0C	524	19	7:54:20	-70:57:36							144	202	141?	7211?	780E	5.92
906	30.0C	95	301	7:57:58	-81: 6:59							126	12	95	342?	21	9.86
907	30.0C	89	302	7:59:22	-81:13:44							125	14	96	352?	22	9.81
908	30.0C	91	300	7:59:37	-81:10:17							129	21	94	594?	29	9.51
909	3.0L	311	138	8: 2:39	-75:39:51							275	6	238	179?	285	7.96
910	10.0C	462	25	8: 3:34	-71:59:30	NO	-0: 3	-0:12				87	11	62	233	61	8.70
911	30.0C	464	21	8: 3:34	-71:59:30	NO	0: 3	0:13				189	111	133?	227	147E	7.74
912	30.0C	278	108	8:16:	-75:59:24							119	6	96	126?	14	10.30
913	10.0C	149	207	8:17:20	-79: 9:46	256491	0:56	1:46	A0	7.30	.00	96	39	41	128?	184	7.49
914	30.0C	150	203	8:17:20	-79: 9:46	256491	1:21	3: 3	A0	7.30	.00	213	69	102	372?	207	7.36
915	10.0C	285	90	8:19:26	-75:38: 5							86	13	43	429?	80	8.40
916	10.0C	250	98	8:23:57	-76:16: 4	256507/	0:56	-0:33	A2	7.14	.00	89	50	40	1473	211E	7.34
917	30.0C	252	94	8:23:57	-76:16: 4	256507/	1:17	0:43	A2	7.14	.00	220	77	95	4550	267E	7.08
918	10.0C	250	98	8:24: 3	-76:16:21	256508/	0:50	-0:16	A	8.86	.00	89	50	40	1473	211E	7.34
919	30.0C	252	94	8:24: 3	-76:16:21	256508/	1:11	1: 0	A	8.86	.00	220	77	95	4550	267E	7.08



# NRL REPORT 8487

NORMA, R.A. 17:24 DEC. -39:04 (4 FRAMES)

OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAO NO.	A R.A.	A DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	BG	DENSITY VOLUME	CORR. V/E	UV MAG.
1	4.1C	687	60	16:11:40	-57:47:13	243509	0: 6	-0: 9	A2	5.86	.00	68	4	36	107 L	120	7.96
2	3.0C	678	79	16:13:51	-57:55:48	243551	0:21	1:35	A	8.89	8.68	361	5	331	1197	280	7.98
3	3.0C	677	72	16:14:13	-57:44: 9	243563	0:22	-2:52	A0	9.78	9.65	83	60	29	2046 H	1020	5.62
4	4.1C	675	76	16:14:13	-57:44: 9	243563	0:20	-3:37	A0	9.78	9.65	112	89	37	3802 H	1330	5.33
5	3.0C	931	272	16:14:22	-64:23:34	NO*	-0: 6	-2: 4				258	13	234	282	393	7.61
6	3.0C	933	266	16:14:22	-64:23:34	NO*	0: 7	1:27				58	21	28	465	320	6.89
7	4.1C	931	270	16:14:22	-64:23:34	NO*	-0: 2	0:37				70	27	29	823	332E	6.85
8	3.0C	935	274	16:14:23	-64:30: 0	NO*	-0:15	-1: 7				264	11	235	268	374E	7.67
9	4.1C	934	274	16:14:23	-64:30: 0	NO*	0:14	1: 8				54	9	30	194	155E	7.68
10	1.0L	671	80	16:14:27	-57:49: 2	243571	0:18	2:24	88	9.42	9.29	169	17	143	367 H	2051	5.81
11	3.0L	673	78	16:14:27	-57:49: 2	243571	0: 3	0:40	88	9.42	9.29	375	94	339	1540 H	1970	5.85
12	3.0C	677	72	16:14:27	-57:49: 2	243571	0: 8	2: 1	88	9.42	9.29	83	60	29	2046 H	1020	5.62
13	4.1C	675	76	16:14:27	-57:49: 2	243571	0: 5	1:16	88	9.42	9.29	112	89	37	3802 H	1330	5.33
14	4.1C	667	68	16:14:28	-57:34:28	243572	-0: 1	0:52	85	8.44	8.14	65	13	37	312 L	183	7.50
15	1.0L	671	80	16:14:37	-57:49:27	243581	-0: 9	2:49				169	17	143	367 H	2051	5.81
16	3.0C	673	78	16:14:37	-57:49:27	243581	-0: 6	1: 5				375	94	339	1540 H	1970	5.85
17	3.0C	677	72	16:14:37	-57:49:27	243581	-0: 2	2:26				83	60	29	2046 H	1020	5.62
18	4.1C	675	76	16:14:37	-57:49:27	243581	-0: 4	1:41				112	89	37	3802 H	1330	5.33
19	3.0L	680	84	16:14:38	-58: 0:49	243582	-0: 2	1: 2	88	8.63	8.29	349	13	330	260 L	513	7.32
20	4.1C	683	82	16:14:38	-58: 0:49	243582	-0: 1	0:49	88	8.63	8.29	60	4	37	89 L	111	8.04
21	1.0L	671	80	16:14:39	-57:48:34	243583	-0: 7	1:55	88	7.84	7.61	169	17	143	367	2051	5.81
22	3.0C	673	78	16:14:39	-57:48:34	243583	-0: 8	0:12	88	7.84	7.61	375	94	339	1540 H	1970	5.85
23	3.0C	677	72	16:14:39	-57:48:34	243583	-0: 4	1:33	88	7.84	7.61	83	60	29	2046 H	1020	5.62
24	4.1C	675	76	16:14:39	-57:48:34	243583	-0: 6	0:48	88	7.84	7.61	112	89	37	3802 H	1330	5.33
25	1.0L	671	80	16:14:41	-57:49:22	243584	-0: 5	2:44				169	17	143	367 H	2051	5.81
26	3.0L	673	78	16:14:41	-57:49:22	243584	-0:10	1: 0				375	94	339	1540 H	1970	5.85
27	3.0C	677	72	16:14:41	-57:49:22	243584	-0: 5	2:21				83	60	29	2046 H	1020	5.62
28	4.1C	675	76	16:14:41	-57:49:22	243584	-0: 7	1:56				112	89	37	3802 H	1330	5.33
29	4.1C	880	239	16:15: 7	-63:11:25	253498	-0:10	1: 4	A5	9.30	9.29	51	4	28	89	116	7.99
30	1.0L	671	80	16:15: 8	-57:46:21	243605	-0:22	-0:18	85	9.28	9.03	169	17	143	367 H	2051	5.81
31	3.0C	677	72	16:15: 8	-57:46:21	243605	-0:33	-0:40	85	9.28	9.03	83	60	29	2046 H	1020	5.62
32	1.0L	671	80	16:15:15	-57:45:53	243612	-0:29	-0:45	88	9.11	8.83	169	17	143	367 H	2051	5.81
33	3.0L	794	174	16:15:24	-61: 0:50	253503	-0:31	1: 2	88	9.00	8.67	293	8	266	188 L	338	7.78
34	4.1C	797	172	16:15:24	-61: 0:50	253503	-0:40	0:37	88	9.00	8.67	59	10	30	255 L	173	7.56
35	3.0L	809	190	16:16: 0	-61:29:15	253507	-0:33	2:23	88	8.92	8.55	288	8	266	160 L	302	7.90
36	4.1C	812	189	16:16: 0	-61:29:15	253507	-0:34	1:15	88	8.92	8.55	58	16	30	386	209	7.35
37	3.0L	688	103	16:16:15	-58:20:15	243647	-0: 9	-2:27	88	8.70	8.22	336	7	316	140 L	312	7.86
38	4.1C	689	100	16:16:15	-58:20:15	243647	-0:10	-0:10	88	8.70	8.22	67	13	35	335 L	191	7.45
39	3.0L	688	103	16:16:19	-58:27: 4	243648	-0:13	4:22	A0	9.92	9.78	336	7	316	140	312	7.86
40	1.0L	673	112	16:17:16	-58:16: 5	243679	-0:55	3:26	A2	9.43	9.48	163	7	130	189 H	542	7.26
41	3.0L	739	163	16:18:43	-59:57:57	243711	-0: 6	-0:47	A0	9.19	8.91	302	4	278	91	202	8.34
42	4.1C	742	165	16:18:43	-59:57:57	243711	-0:20	-4: 5	A0	9.19	8.91	59	12	30	297	185	7.48
43	4.1C	742	165	16:19: 9	-60: 0:11	253529	-0: 6	-1:51	A2	9.20	9.17	59	12	30	297 H	185	7.48
44	4.1C	742	165	16:19:18	-60: 1:17	253530	-0:15	-0:45	A0	9.03	8.59	59	12	30	297	185	7.48
45	4.1C	856	255	16:19:34	-62:58:46	253532	-0:23	-0:19	A2	9.70	9.52	51	5	27	110 H	130	7.87
46	1.0L	714	155	16:19:50	-59:26:39	243738	-0:10	0:39	88	9.40	9.03	143	7	120	139 H	456	7.45
47	3.0L	714	153	16:19:50	-59:26:39	243738	-0:11	0:11	88	9.40	9.03	308	14	279	327	442	7.48
48	4.1C	717	152	16:19:50	-59:26:39	243738	-0: 8	-1: 4	88	9.40	9.03	62	12	31	301	186	7.48
49	1.0L	553	41	16:19:59	-55:20:17	243741	-0:10	1:14	B5	7.74	7.40	195	29	149	889	1090	6.50
50	3.0L	555	39	16:19:59	-55:20:17	243741	-0:18	0:26	B5	7.74	7.40	440	59	362	1180	1750E	5.98

# PAGE, CARRUTHERS, AND HECKATHORN

NORMA, R.A. 17:24 DEC. -59:04 14 FRAMES

OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAO NO.	Δ R.A.	Δ DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	BG	DENSITY VOLUME	CORR. V/E	UV MAG.
51	3.0C	559	33	16:19:59	-55:20:17	243741	-0:10	-0:2	85	7.74	7.40	122	47	34	2174	1010	5.63
52	4.1C	557	37	16:19:59	-55:20:17	243741	-0:5	0:12	85	7.74	7.40	180	63	35?	4244	1400	5.28
53	3.0C	549	28	16:20:14	-55:6:15	243748	-0:9	0:46	88	7.86	.00	67	20	29	581	357	6.77
54	4.1C	547	32	16:20:14	-55:6:15	243748	-0:16	0:38	88	7.86	.00	93	37	38	1267	445	6.53
55	1.0L	523	23	16:20:23	-54:36:38	243750	-0:24	2:41	83	8.08	.00	175	10?	156?	200	637E	7.09
56	3.0C	528	17	16:20:23	-54:36:38	243750	-0:4	1:6	83	8.08	.00	64	12	29	323	210E	7.35
57	4.1C	526	22	16:20:23	-54:36:38	243750	0:4	-0:22	83	8.08	.00	62	7	35	160	166E	7.60
58	4.1C	752	181	16:20:29	-60:24:0	253536	-0:23	0:7	89	9.24	8.89	55	6	30	137	136	7.82
59	3.0C	564	58	16:22:12	-55:42:30	243793	0:5	-1:54	88	8.08	7.87	71	20	38	532	198	7.41
60	4.1C	562	62	16:22:12	-55:42:30	243793	0:3	-1:2	88	8.08	7.87	54	5	322	115	265	8.04
61	3.0L	600	94	16:22:16	-56:46:17	243796	-0:0	-0:32	88	7.87	7.50	348	14	28	363	274	7.06
62	3.0C	605	88	16:22:16	-56:46:17	243796	-0:1	-1:19	88	7.87	7.50	85	25	34	832	327	6.86
63	4.1C	603	92	16:22:16	-56:46:17	243796	-0:2	-1:11	88	7.87	7.50	81	14	28	363	274	7.06
64	1.0L	712	175	16:22:22	-59:39:22	243798	-0:1	-0:20	89	8.66	8.31	145	6	118	146	460	7.44
65	3.0L	713	174	16:22:22	-59:39:22	243798	-0:5	-1:49	89	8.66	8.31	320	20	271	658	720	6.95
66	3.0C	717	168	16:22:22	-59:39:22	243798	-0:2	-0:30	89	8.66	8.31	84	23	26	842	460	6.49
67	4.1C	715	172	16:22:22	-59:39:22	243798	-0:0	-0:21	89	8.66	8.31	111	32	31	1394	470	6.47
68	1.0L	712	175	16:22:28	-59:39:57	243801	-0:7	0:15	89	9.28	9.04	145	6	118	146	460	7.44
69	3.0L	713	174	16:22:28	-59:39:57	243801	-0:10	-1:15	89	9.28	9.04	320	20	271	658	720	6.95
70	3.0C	717	168	16:22:28	-59:39:57	243801	-0:8	0:5	89	9.28	9.04	84	23	26	842	460	6.49
71	4.1C	715	172	16:22:28	-59:39:57	243801	-0:6	0:13	89	9.28	9.04	111	32	31	1394	470	6.47
72	1.0L	712	175	16:22:35	-59:37:42	243805	-0:17	-2:30	40	9.80	9.45	320	20	271	658	720	6.95
73	3.0L	713	174	16:22:35	-59:37:42	243805	-0:14	-2:10	40	9.80	9.45	84	23	26	842	460	6.49
74	3.0C	717	168	16:22:35	-59:37:42	243805	-0:12	-2:10	40	9.80	9.45	111	32	31	1394	470	6.47
75	4.1C	715	172	16:22:35	-59:37:42	243805	-0:2	-2:2	40	9.80	9.45	303	7	277	157	302	7.90
76	3.0L	701	169	16:22:36	-59:28:29	243806	0:9	4:21	89	9.70	9.47	49	4	25	87	167	7.60
77	3.0C	703	167	16:22:36	-59:28:29	243806	0:7	4:38	89	9.70	9.47	61	14	29	364	200	7.40
78	4.1C	705	163	16:22:36	-59:28:29	243806	0:9	4:46	89	9.70	9.47	145	6	118	146	460	7.44
79	1.0L	712	175	16:22:37	-59:39:13	243807	-0:16	-0:29	89	8.74	8.45	320	20	271	658	720	6.95
80	3.0L	713	174	16:22:37	-59:39:13	243807	-0:19	-1:58	89	8.74	8.45	84	23	26	842	460	6.49
81	3.0C	717	168	16:22:37	-59:39:13	243807	-0:15	-0:38	89	8.74	8.45	111	32	31	1394	470	6.47
82	4.1C	715	172	16:22:49	-59:23:18	243808	-0:3	-0:50	89	8.75	8.37	303	7	277	157	302	7.90
83	3.0L	701	169	16:22:49	-59:23:18	243808	-0:6	-0:33	89	8.75	8.37	49	4	25	87	167	7.60
84	3.0C	705	163	16:22:49	-59:23:18	243808	-0:4	-0:25	89	8.75	8.37	61	14	29	364	200	7.40
85	4.1C	703	167	16:22:49	-59:23:18	243808	-0:3	1:27	89	10.10	9.93	344	6	316	147?	317	7.85
86	3.0L	570	83	16:23:22	-56:9:20	243819	-0:4	-4:48	40	8.88	8.63	291	2	272	40	104	9.06
87	3.0L	714	185	16:23:35	-59:44:13	243825	0:0	-1:11	40	8.88	8.63	45	0	29	46?	76	8.46
88	4.1C	714	181	16:23:35	-59:44:13	243825	0:5	-1:11	40	8.88	8.63	291	2	272	40	104	9.06
89	3.0L	714	185	16:23:55	-59:49:3	243834	-0:20	0:2	89	8.64	8.25	291	2	272	40	104	9.06
90	4.1C	568	184	16:23:55	-59:49:3	243834	-0:13	-0:15	89	8.64	8.25	62	10	29	259	175	7.55
91	3.0L	568	87	16:23:59	-56:2:27	243835	-0:1	-5:58	45	9.10	9.25	344	5	317	115?	260	8.06
92	1.0L	660	153	16:24:1	-58:29:18	243836	0:5	-0:21	89	5.78	.00	176	34	120	1062	1610	6.07
93	3.0C	661	151	16:24:1	-58:29:18	243836	-0:5	-1:12	89	5.78	.00	382	51	282	2412	2580	5.56
94	3.0C	665	146	16:24:1	-58:29:18	243836	0:1	-1:38	89	5.78	.00	177	46	25	2931	1210	5.44
95	4.1C	663	149	16:24:1	-58:29:18	243836	-0:4	-0:50	89	5.78	.00	219	51	32	3731	1150	5.49
96	1.0L	660	153	16:24:3	-58:33:59	243838	0:3	4:20	45	9.70	9.76	176	34	120	1062	1610	6.07
97	3.0L	661	151	16:24:3	-58:33:59	243838	-0:7	3:29	45	9.70	9.76	382	51	282	2412	2580	5.56
98	3.0C	665	146	16:24:3	-58:33:59	243838	-0:1	3:3	45	9.70	9.76	177	46	25	2931	1210	5.44
99	4.1C	663	149	16:24:3	-58:33:59	243838	-0:6	3:51	45	9.70	9.76	219	51	32	3731	1150	5.49
100	3.0L	606	114	16:24:7	-57:6:1	243840	-0:8	-0:12	40	7.84	7.43	332	6	302	162	329	7.81

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NORMA, R.A. 17:24 DEC. -59:04 (4 FRAMES)

OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAO NO.	A R.A.	A DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	BG	DENSITY VOLUME	CORR. V/E	UV MAG.
101	4.1C	608	113	16:24:17	-57:06:11	243840	0:2	-0:30	A0	7.84	7.43	67	17	31	458	225	7.27
102	4.1C	575	52	16:24:21	-56:17:12	243844	0:3	-0:7	B5	8.63	8.49	58	6	33	137 L	136	7.82
103	3.0C	601	107	16:24:26	-56:58:27	243847	0:16	1:58	B9	9.40	9.29	59	6	25	173	202	7.39
104	4.1C	599	112	16:24:26	-56:58:27	NO*	0:20	2:16	B9	9.40	9.29	73	7	31	213	159	7.65
105	3.0L	961	358	16:24:29	-56:56:45	NO*	-0:9	0:17				248	42	211	1164	1040	6.55
106	3.0C	965	354	16:24:29	-56:56:45	NO*	0:10	0:21				61	32	21	971	543	6.31
107	4.1C	963	358	16:24:29	-56:56:45	NO*	-0:2	-0:39				78	52	25	1664	605	6.19
108	4.1C	630	136	16:24:31	-57:47:40	243850	0:2	-0:2	B3	8.87	8.59	340	21	295	651	710	6.97
109	3.0C	635	130	16:24:31	-57:47:40	243850/	0:9	-0:29	B3	8.87	8.59	79	22	25	769	435	6.55
110	4.1C	633	134	16:24:31	-57:47:40	243850/	0:12	-0:21	B3	8.87	8.59	104	30	31	1280	445	6.53
111	4.1C	488	32	16:24:35	-54:11:9	243851	-0:23	-0:42	A5	9.32	9.45	64	6	38	149	135	7.83
112	4.1C	488	32	16:24:37	-54:51:29	243853/	-0:26	3:38	B8	9.07	8.80	64	6	38	149 L	135	7.83
113	3.0C	635	130	16:25:0	-57:51:35	243862	-0:28	3:27	A0	9.94	9.95	79	22	25	769 H	435	6.55
114	4.1C	633	134	16:25:0	-57:48:1	243862	-0:25	3:34	A0	9.94	9.95	104	30	31	1280 H	445	6.53
115	3.0L	566	108	16:26:53	-56:23:14	243889	-0:31	2:19	B0	8.72	8.51	334	9	302	245 L	430	7.51
116	4.1C	569	110	16:26:53	-56:23:14	243889	-0:2	-1:5	B0	8.72	8.51	57	6	31	138 L	137	7.81
117	1.0L	889	324	16:27:2	-64:21:57	243586/	-0:49	1:13	B8	6.60	.00	132	17	97	454 L	1602	6.08
118	3.0L	889	323	16:27:2	-64:21:57	243586/	-0:50	0:44	B8	6.60	.00	286	40	218	1743 L	1877	5.91
119	3.0C	893	318	16:27:2	-64:21:57	243586/	-0:47	0:24	B8	6.60	.00	105	41	23	1820	870	5.67
120	4.1C	891	322	16:27:2	-64:21:57	243586/	-0:50	0:26	B8	6.60	.00	137	66	26	3289	1080	5.56
121	3.0L	543	100	16:27:18	-55:49:57	243905	-0:8	-1:17	B9	8.01	7.77	346	30	308	706	960	6.64
122	3.0C	547	94	16:27:18	-55:49:57	243905	-0:4	0:3	B9	8.01	7.77	59	15	32	220 L	220	7.30
123	4.1C	545	98	16:27:18	-55:49:57	243905	-0:1	0:4	B9	8.01	7.77	72	15	32	460	218	7.31
124	3.0L	797	266	16:27:20	-62:11:0	243588	-0:29	-0:34	B9	7.46	.00	282	22	236	706	720	6.95
125	3.0C	801	261	16:27:20	-62:11:0	243588	-0:19	0:6	B9	7.46	.00	79	20	24	719	405	6.63
126	4.1C	799	264	16:27:20	-62:11:0	243588	-0:28	0:49	B9	7.46	.00	100	27	30	1082	382	6.69
127	3.0C	780	255	16:28:30	-61:45:9	243595	-0:31	-0:34	B9	8.48	8.00	55	11	22	285	259	7.12
128	4.1C	778	259	16:28:30	-61:45:9	243595	-0:31	-0:33	B9	8.48	8.00	69	14	28	420	215	7.32
129	4.1C	782	264	16:28:52	-61:52:51	243599	-0:31	-0:24	B8	.00	9.30	56	6	30	134 L	134	7.84
130	1.0L	946	379	16:29:11	-65:54:59	NO*	0:8	0:14				135	43	91	1307	2464	5.61
131	3.0L	946	378	16:29:11	-65:54:59	NO*	0:4	0:17				303	77	210	3700	3325	5.28
132	3.0C	950	372	16:29:11	-65:54:59	NO*	-0:4	0:3				128	63	22	3379	1500	5.20
133	4.1C	948	376	16:29:11	-65:54:59	NO*	-0:9	0:1				168	80	26	4916	1720	5.05
134	4.1C	686	187	16:29:36	-58:57:19	2439437	-1:15	-3:5	B9	9.90	9.69	52	3	29	65	93	8.24
135	3.0L	769	273	16:30:44	-61:47:27	243613	-0:20	-0:1	B8	9.50	9.04	267	5	241	104 L	210	8.30
136	3.0C	774	267	16:30:44	-61:47:27	243613	-0:30	-0:51	B8	9.50	9.04	53	6	23	154	198	7.41
137	4.1C	771	271	16:30:44	-61:47:27	243613	-0:25	0:13	B8	9.50	9.04	69	14	27	432	213	7.33
138	1.0L	435	66	16:31:21	-53:32:40	243965	0:9	2:3	B5	7.18	.00	227	73	127	3658 H	7200	4.44
139	3.0L	436	64	16:31:21	-53:32:40	243965	0:3	1:3	B5	7.18	.00	453	136	323	7378 H	11700	3.91
140	3.0C	440	58	16:31:21	-53:32:40	243965	0:3	1:7	B5	7.18	.00	239	80	26	6370 H	3050	4.43
141	4.1C	438	61	16:31:21	-53:32:40	243965	0:3	1:50	B5	7.18	.00	357	99	38	9668 H	3780	4.19
142	4.1C	483	102	16:31:30	-54:43:15	243969/	0:37	-0:57	B9	8.80	9.63	58	7	31	157	144	7.76
143	3.0C	838	324	16:32:2	-63:31:14	2436217	-0:39	-1:13	B9	8.72	8.29	249	4	224	94 L	187	8.42
144	3.0C	841	319	16:32:2	-63:31:14	243621	-0:24	0:31	B9	8.72	8.29	46	4	22	95 L	167	7.60
145	3.0C	839	322	16:32:2	-63:31:14	243621	-0:35	1:8	B9	8.72	8.29	61	11	25	307	186	7.48
146	3.0L	480	106	16:32:19	-54:46:22	243981	-0:9	1:19	B8	9.34	9.11	327	9	296	230?	340	7.77
147	1.0L	473	115	16:33:17	-54:46:43	243995/	0:18	4:47	B8	9.10	8.84	139	14	116	289	961	6.64
148	3.0C	474	114	16:33:17	-54:46:43	243995/	0:18	3:8	B8	9.10	8.84	338	33	292	1035 H	1735	5.99
149	3.0C	479	107	16:33:17	-54:46:43	243995	0:6	2:45	B8	9.10	8.84	86	36	27	1207 H	620	6.17
150	4.1C	477	111	16:33:17	-54:46:43	243995	0:12	2:47	B8	9.10	8.84	79	48	31	2059 H	700	6.03

PAGE, CARRUTHERS, AND HECKATHORN

NORMA, R.A. 17:24 DEC. -59:04 (4 FRAMES)

OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAO NO.	A R.A.	A DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	BG	DENSITY VOLUME	CORR. V/E	UV MAG.
151	3.0L	433	79	16:33:22	-53:40:32	243996	-0:16	2:59	88	8.16	7.94	344	11	313	259 L	470	7.42
152	3.0C	437	75	16:33:22	-53:40:32	243996	0: 7	1:12	88	8.16	7.94	51	7	26	157 L	197	7.42
153	4.1C	435	79	16:33:22	-53:40:32	243996	0: 6	1:51	88	8.16	7.94	66	14	33	358 L	198	7.41
154	1.0L	625	209	16:33:43	-58:31:50	244002	0: 4	-0: 8	88	7.52	7.03	159	18	115	633	1000	6.59
155	3.0L	625	208	16:33:43	-58:31:50	244002	0: 6	-0:41	88	7.52	7.03	370	32	271	1535	1543	5.81
156	3.0C	630	202	16:33:43	-58:31:50	244002	0: 4	-0:33	88	7.52	7.03	170	33	25	1963	855	5.81
157	4.1C	628	206	16:33:43	-58:31:50	244002	0: 2	-1:39	88	7.52	7.03	210	40	31	2708	790	5.90
158	1.0L	473	115	16:33:47	-54:45:30	244003/	-0:12	3:34	88	7.82	7.40	139	14	116	289 L	981	6.64
159	3.0L	474	114	16:33:47	-54:45:30	244003/	-0:11	1:55	88	7.82	7.40	338	33	292	1035	1735	5.99
160	3.0C	479	107	16:33:47	-54:45:30	244003/	-0:23	1:32	88	7.82	7.40	86	36	27	1207	620	6.17
161	4.1C	477	111	16:33:47	-54:45:30	244003/	-0:17	1:34	88	7.82	7.40	109	48	31	2069	700	6.03
162	1.0L	473	115	16:34: 9	-54:43: 7	244007:	-0:34	1:11	A0	9.46	9.29	139	14	116	289 H	630	7.10
163	4.1C	477	111	16:34: 9	-54:43: 7	244007:	-0:39	-0:49	A0	9.46	9.29	109	48	31	2069 H	700	6.03
164	3.0L	576	183	16:34:25	-57:22:29	NO*	-0: 1	-0: 4				321	16	268	546	660	7.05
165	3.0C	581	177	16:34:25	-57:22:29	NO*	-0: 2	0: 1				73	11	24	384	278	7.04
166	4.1C	579	181	16:34:25	-57:22:29	NO*	0: 2	0: 1				95	19	30	731	294	6.98
167	1.0L	720	271	16:34:26	-60:53:26	253638	-0:11	-1:38	85	6.24	.00	247	38	109	2225	3660	5.18
168	3.0L	720	269	16:34:26	-60:53:26	253638	-0:19	-1:34	85	6.24	.00	428	66	241	4957	5400	4.75
169	3.0C	724	264	16:34:26	-60:53:26	253638	-0: 9	-0:57	85	6.24	.00	288	52	24	4554	1940	4.92
170	4.1C	722	268	16:34:26	-60:53:26	253638	-0:13	-2: 4	85	6.24	.00	329	68	29	6262	2150	4.81
171	3.0C	528	151	16:35: 3	-56: 7:34	244022	0: 3	-0: 3	88	8.78	8.41	51	4	25	95 L	166	7.60
172	4.1C	526	154	16:35: 3	-56: 7:34	244022	0: 0	0:34	88	8.78	8.41	59	9	25	222 L	165	7.61
173	1.0L	370	62	16:35: 6	-52:22:18	244024/	0:24	4:11	A0*	7.46	.00	133	0	114	1180	1760	5.98
174	3.0L	375	62	16:35: 6	-52:22:18	244024/	0:11	-1:56	A0*	7.46	.00	351	35	314	900	1200	6.40
175	3.0C	378	56	16:35: 6	-52:22:18	244024/	0:28	-0:21	A0*	7.46	.00	51	24	24	567	368	6.73
176	4.1C	376	59	16:35: 6	-52:22:18	244024/	0:24	-0:48	A0*	7.46	.00	78	43	35	1300	470	6.47
177	1.0L	370	62	16:35:18	-52:20: 5	244027:	0:12	1:58	89*	8.98	8.64	133	0	114	1180	1760	5.98
178	3.0L	375	62	16:35:18	-52:20: 5	244027:	-0: 0	-4: 8	89*	8.98	8.64	351	35	314	900 H	1200	6.40
179	3.0C	378	56	16:35:18	-52:20: 5	244027:	0:16	-2:34	89*	8.98	8.64	51	24	24	567	368	6.73
180	4.1C	376	59	16:35:18	-52:20: 5	244027:	0:12	-3: 0	89*	8.98	8.64	78	43	35	1300 H	470	6.47
181	1.0L	370	62	16:35:28	-52:26:16	244032/	0: 2	8:11	82*	9.18	8.92	133	0	114	1180	1760	5.98
182	3.0L	375	62	16:35:28	-52:26:16	244032/	-0:10	2: 2	82*	9.18	8.92	351	35	314	900	1200	6.40
183	3.0C	378	56	16:35:28	-52:26:16	244032/	0: 6	3:36	82*	9.18	8.92	51	24	24	567	368	6.73
184	4.1C	376	59	16:35:28	-52:26:16	244032/	0: 2	3:10	82*	9.18	8.92	78	43	35	1300	470	6.47
185	1.0L	553	181	16:35:34	-56:53:45	244037	0: 0	-0:43	89	6.80	.00	147	15	109	425	735	6.93
186	3.0C	553	179	16:35:34	-56:53:45	244037	-0: 4	-0:41	89	6.80	.00	338	31	264	1332	1300	6.31
187	3.0C	557	173	16:35:34	-56:53:45	244037	0: 7	-0: 8	89	6.80	.00	126	26	25	1267	600	6.20
188	4.1C	555	177	16:35:34	-56:53:45	244037	0:12	-0: 9	89	6.80	.00	157	35	29	1906	615	6.17
189	3.0L	355	54	16:35:55	-52: 1:23	244047	-0: 2	4: 0	89	9.12	9.02	330	8	294	1023 H	1340	7.59
190	1.0L	780	318	16:36:10	-62:27:26	253648	-0:22	-1: 4	85	8.11	7.65	165	26	99	1023 H	1340	6.27
191	3.0L	780	317	16:36:10	-62:27:26	253648	-0:22	-1:39	85	8.11	7.65	357	52	227	2747 H	2450	5.62
192	3.0C	784	311	16:36:10	-62:27:26	253648	-0:27	-1:28	85	8.11	7.65	152	40	22	2163	1000	5.64
193	4.1C	781	315	16:36:10	-62:27:26	253648	-0:22	-0:28	85	8.11	7.65	196	63	28	3402	1100	5.54
194	4.1C	880	379	16:36:20	-64:48:41							57	11	24	2907	191	7.45
195	3.0L	842	357	16:36:31	-63:57:26	253652	-0:25	-0:52	A0	8.41	8.01	239	4	215	92 L	181	8.46
196	3.0C	846	351	16:36:31	-63:57:26	253652	-0:26	-0:46	A0	8.41	8.01	54	9	21	244	243	7.19
197	4.1C	844	355	16:36:31	-63:57:26	253652	-0:34	-0:46	A0	8.41	8.01	68	16	26	492	243	7.19
198	1.0L	434	115	16:36:35	-54: 2:23	244053	0: 1	1:30	85	8.12	.00	176	39	117	1256 H	2630	5.54
199	3.0L	434	113	16:36:35	-54: 2:23	244053	-0: 1	1:30	85	8.12	.00	403	64	286	3796 H	4990	4.84
200	3.0C	439	107	16:36:35	-54: 2:23	244053	0: 3	-0: 9	85	8.12	.00	161	46	28	2701 H	1150	5.49

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NORMA, R.A. 17:24 DEC. -59:04 (4 FRAMES)																	
OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAO NO.	Δ R.A.	Δ DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	BG	DENSITY VOLUME	CORR. V/E	UV MAG.
201	4.1C	437	111	16:36:35	-54: 2:23	244053	0: 1	0:27	B5	8.12	.00	218	58	31	4215 H	1330	5.33
202	3.0C	523	161	16:36:38	-56: 8:40	244056	-0: 5	-0:11	B8	8.36	8.00	61	8	24	235 L	233	7.23
203	4.1C	521	165	16:36:38	-56: 8:40	244056	-0: 0	-0:12	B8	8.36	8.00	80	15	29	506	234	7.23
204	3.0L	421	105	16:36:46	-53:44:58	244057	-0: 4	3:32	B8	9.60	9.45	319	6	290	1477	297	7.92
205	3.0L	340	54	16:37: 8	-51:41:37	244061	-0:15	0:24	B8	9.90	9.90	320	6	294	1327	278	7.99
206	3.0L	542	190	16:37:44	-56:48:30	244069	-0: 5	-0: 7	B9	8.36	8.00	288	11	256	264 L	547	7.25
207	3.0C	546	184	16:37:44	-56:48:30	244069	0: 2	-0:40	B9	8.36	8.00	57	6	25	159 L	197	7.42
208	4.1C	544	188	16:37:44	-56:48:30	244069	0: 6	-0:43	B9	8.36	8.00	74	14	28	441	218	7.31
209	3.0L	777	326	16:37:50	-62:31: 1	253666	-0:28	-1:11	B9	9.60	9.23	241	5	227	100	195	8.38
210	4.1C	779	324	16:37:50	-62:31: 1	253666	-0:34	-0: 7	B9	9.60	9.23	49	4	28	82	111	8.04
211	3.0L	984	452	16:38:17	-67:20:15	253673	-0: 7	-1:21	A0	6.32	.00	219	5	198	100 L	180	8.46
212	3.0C	988	447	16:38:17	-67:20:15	253673	-0: 6	-1:44	A0	6.32	.00	49	9	23	207 L	230	7.25
213	4.1C	986	451	16:38:17	-67:20:15	253673	-0:13	-1:54	A0	6.32	.00	64	21	26	596 L	270E	7.07
214	1.0L	496	170	16:38:25	-55:44:56	244080	-0: 6	1: 8	A0	7.97	.00	135	8	108	183	698	6.99
215	3.0L	497	168	16:38:25	-55:44:56	244080	-0:13	0: 2	A0	7.97	.00	324	28	266	984 H	1304	6.30
216	3.0C	500	163	16:38:25	-55:44:56	244080	-0: 2	1:40	A0	7.97	.00	87	18	24	733	403	6.64
217	4.1C	499	166	16:38:25	-55:44:56	244080	-0: 9	0: 2	A0	7.97	.00	118	24	29	1125	398	6.65
218	3.0C	606	228	16:38:49	-58:22:36	244084	0:10	-1:26	B8	8.20	7.82	54	5	24	129 L	189	7.46
219	4.1C	604	231	16:38:49	-58:22:36	244084	-0: 4	-0:18	B8	8.20	7.82	71	10	30	302 L	181	7.51
220	3.0L	678	278	16:38:57	-60:14:33	253676	-0: 3	-1:29	B9	9.60	9.07	264	5	236	124	229	8.20
221	3.0C	682	272	16:38:57	-60:14:33	253676	-0: 6	-1:22	B9	9.60	9.07	53	4	23	107	170	7.58
222	4.1C	680	276	16:38:57	-60:14:33	253676	-0: 5	-1:29	B9	9.60	9.07	69	9	27	277	177	7.53
223	4.1C	415	119	16:39: 6	-53:44: 3	244089	-0: 6	1:46	B5	8.85	8.72	56	4	31	94 L	116	7.99
224	1.0L	681	296	16:40:30	-60:30:59	253684	0:29	2:29	A0	8.68	8.49	198	27	102	1278 H	1680	6.03
225	3.0L	681	295	16:40:30	-60:30:59	253684	0:30	1:51	A0	8.68	8.49	384	42	232	2617 H	2230	5.72
226	3.0C	685	289	16:40:30	-60:30:59	253684	0:27	1:56	A0	8.68	8.49	195	36	25	2289 H	1010	5.63
227	4.1C	683	293	16:40:30	-60:30:59	253684	-0:28	1:48	A0	8.68	8.49	231	43	30	3059 H	925	5.73
228	1.0L	482	183	16:40:56	-55:37:37	244108	-0: 7	2:37	B8	8.03	7.60	128	3	107	61 L	320	7.84
229	3.0L	483	181	16:40:56	-55:37:37	244108	-0:11	0:50	B8	8.03	7.60	308	16	258	560 L	810	6.82
230	3.0C	486	176	16:40:56	-55:37:37	244108	-0: 0	1:21	B8	8.03	7.60	75	13	24	466 L	306	6.94
231	4.1C	484	179	16:40:56	-55:37:37	244108	-0: 3	1:52	B8	8.03	7.60	97	19	28	791 L	308	6.93
232	1.0L	681	296	16:41: 2	-60:28:18	253686	-0: 3	-0:11	B8	7.62	.00	198	27	102	1278 H	1680	6.03
233	3.0L	681	295	16:41: 2	-60:28:18	253686	-0: 1	-0:49	B8	7.62	.00	384	42	232	2617 H	2230	5.72
234	3.0C	685	289	16:41: 2	-60:28:18	253686	-0: 5	-0:44	B8	7.62	.00	195	36	25	2289 H	1010	5.63
235	4.1C	683	293	16:41: 2	-60:28:18	253686	-0: 4	-0:52	B8	7.62	.00	231	43	30	3059 H	925	5.73
236	4.1C	613	295	16:41:14	-58:48:42	244113	-0: 3	0:45	B8	9.50	9.17	61	4	34	100 L	118	7.98
237	3.0C	730	316	16:41:26	-61:34:18	253687	-0:15	-1:43	A0	7.00	.00	52	6	21	161 L	202	7.39
238	4.1C	728	320	16:41:26	-61:34:18	253687	-0:24	-1:15	A0	7.00	.00	67	8	27	245 L	170	7.58
239	1.0L	962	459	16:41:37	-67: 1: 8	253688	-0: 5	-1: 3	A0	5.30	.00	181	71	85	3382 H	4854	4.87
240	3.0L	961	458	16:41:37	-67: 1: 8	253688	-0: 3	-0:37	A0	5.30	.00	388	103	198	7662 H	9700	4.12
241	3.0C	965	453	16:41:37	-67: 1: 8	253688	-0: 1	-1: 2	A0	5.30	.00	261	100	22	8694 H	4250	4.07
242	4.1C	963	457	16:41:37	-67: 1: 8	253688	-0: 8	-1:14	A0	5.30	.00	337	117	25	11919 H	4650	3.97
243	4.1C	532	214	16:41:52	-56:52: 7	244121	-0: 1	0:21	B8	9.27	9.16	55	4	27	106 L	125	7.91
244	4.1C	625	268	16:42: 1	-59:10:10	244122	0: 6	0:19	B3	5.94	.00	57	4	29	98?	121	7.95
245	1.0L	592	255	16:42: 4	-58:24:47	244122	0:14	0:46	B3	5.94	.00	405	63	108	5835	13000	3.80
246	3.0L	591	254	16:42: 4	-58:24:47	244122	0: 7	-0:18	B3	5.94	.00	379	90	247	10042	13200	3.78
247	3.0C	596	248	16:42: 4	-58:24:47	244122	0:10	-0:26	B3	5.94	.00	405	121	32	8669	4200	4.08
248	4.1C	594	252	16:42: 4	-58:24:47	244122	0:10	-0:26	B3	5.94	.00	405	121	32	13481	5600	3.76
249	3.0C	587	244	16:42:10	-58:13:17	244111?	1: 9	0:33	B8	9.88	9.59	66	10	28	272 H	245	7.18
250	3.0L	696	312	16:42:28	-60:55: 6	253693	-0:13	-1:56	B9	8.68	8.31	256	8	222	220	320	7.84

# PAGE, CARRUTHERS, AND HECKATHORN

NORMA, R.A. 17:24 DEC. -59:04 (4 FRAMES)

OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAO NO.	Δ R.A.	Δ DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	BG	DENSITY VOLUME	CORR. V/E	UV MAG.
251	3.0C	699	307	16:42:28	-60:55:6	253693	-0:3	-1:22	89	8.68	8.31	54	4	26	101 L	170	7.58
252	4.1C	697	310	16:42:28	-60:55:6	253693	-0:11	-0:55	89	8.68	8.31	65	9	28	254	172	7.56
253	4.1C	544	228	16:42:40	-57:15:3	244129	-0:6	0:32	89	9.60	9.32	57	4	28	101	122	7.94
254	3.0L	638	285	16:42:54	-59:40:46	244130	0:6	5:7	A0	9.90	9.73	277	4	238	251	355	7.72
255	1.0L	582	257	16:43:3	-58:15:6	244133	0:1	1:6	80	5.76	.00	419	119	106	10084	28700	2.93
256	3.0L	582	256	16:43:3	-58:15:6	244133	0:4	0:27	80	5.76	.00	465	194	242	16293	24500	3.10
257	3.0C	586	250	16:43:3	-58:15:6	244133	0:10	-0:7	80	5.76	.00	407	132	27	14379	7900	3.39
258	4.1C	584	254	16:43:3	-58:15:6	244133	0:13	-0:16	80	5.76	.00	426	161	31	17042 L	7200	3.49
259	3.0L	638	285	16:43:4	-59:34:48	244134	-0:4	-0:52	89	7.33	.00	277	9	238	251 L	355	7.72
260	3.0C	641	280	16:43:4	-59:34:48	244134	0:7	-0:18	89	7.33	.00	73	12	26	381	278	7.04
261	4.1C	639	283	16:43:4	-59:34:48	244134	0:0	0:8	89	7.33	.00	97	17	30	651	272	7.06
262	4.1C	548	234	16:43:7	-57:22:16	244136	0:2	0:22	89	7.77	7.50	57	6	27	153 L	142	7.77
263	4.1C	530	224	16:43:9	-56:56:44	244137	-0:1	0:40	88	8.96	8.77	55	5	23	127	134	7.84
264	3.0C	521	222	16:44:16	-56:44:45	NO*	-0:4	0:55				55	5	23	127	190	7.46
265	4.1C	519	227	16:44:16	-56:44:45	NO*	0:4	-0:56				59	4	26	117	86	8.32
266	3.0C	710	326	16:44:26	-61:18:1	253705	-0:11	-1:25	A0	7.86	.00	57	6	24	156 L	198	7.41
267	4.1C	707	330	16:44:26	-61:18:1	253705	-0:6	-0:30	A0	7.86	.00	74	12	28	382	204	7.38
268	3.0L	290	99	16:44:30	-51:12:38	244152	0:13	-2:60		9.80	9.90	293	6	273	108	165	8.56
269	1.0L	353	143	16:44:56	-52:51:11	244158	0:2	2:7	88	7.04	.00	146	32	101	960 H	2043	5.81
270	3.0L	354	140	16:44:56	-52:51:11	244158	-0:10	1:28	88	7.04	.00	368	73	258	3700 H	4051	5.07
271	3.0C	358	134	16:44:56	-52:51:11	244158	0:1	1:57	88	7.04	.00	141	44	23	2422 H	1090	5.55
272	4.1C	356	137	16:44:56	-52:51:11	244158	-0:10	1:52	88	7.04	.00	188	54	28	3651 H	1140	5.50
273	3.0L	291	115	16:46:23	-51:28:26	244177	-0:9	2:43		9.60	10.20	298	15	264	399 H	505	7.34
274	3.0C	294	110	16:46:23	-51:28:26	244177	0:10	2:37		9.60	10.20	54	14	25	331 H	272	7.06
275	4.1C	292	113	16:46:23	-51:27:42	244177	0:11	3:2		9.60	10.20	72	26	29	785 H	325	6.87
276	3.0L	291	115	16:46:35	-51:27:42	244184	-0:21	1:59	88	7.99	.00	298	15	264	399 L	505	7.34
277	3.0C	294	113	16:46:35	-51:27:42	244184	-0:1	1:53	88	7.99	.00	54	14	25	331 L	272	7.06
278	4.1C	292	113	16:46:35	-51:27:42	244184	-0:1	2:18	88	7.99	.00	72	26	29	785	325	6.87
279	3.0L	458	217	16:46:40	-55:32:0	244186	-0:3	1:18	89	8.88	8.57	279	10	246	280	392	7.62
280	3.0C	462	211	16:46:40	-55:32:0	244186	0:4	0:41	89	8.88	8.57	59	10	22	286	253	7.14
281	4.1C	460	214	16:46:40	-55:32:0	244186	-0:6	1:40	89	8.88	8.57	79	13	27	440	218	7.31
282	3.0L	429	202	16:46:47	-54:50:57	244187	0:4	1:39	88	9.04	8.73	285	13	247	370	475	7.41
283	3.0C	434	195	16:46:47	-54:50:57	244187	-0:9	1:4	88	9.04	8.73	62	9	23	264	245	7.18
284	4.1C	432	199	16:46:47	-54:50:57	244187	-0:3	0:53	88	9.04	8.73	75	12	28	402	207	7.36
285	3.0L	504	242	16:46:52	-56:38:39	244189	-0:9	0:39	88	8.98	8.67	258	10	242	214	342	7.76
286	4.1C	505	240	16:46:52	-56:38:39	244189	0:1	1:51	88	8.98	8.67	55	4	28	95 L	121	7.95
287	1.0L	871	439	16:47:1	-65:17:27	253717	-0:20	0:41	88	6.30	.00	156	32	90	1233	1600	6.08
288	3.0L	871	438	16:47:1	-65:17:27	253717	-0:22	0:0	88	6.30	.00	330	50	200	3193	2660	5.53
289	3.0C	874	433	16:47:1	-65:17:27	253717	-0:14	0:36	88	6.30	.00	182	54	21	3475	1500	5.20
290	4.1C	872	437	16:47:1	-65:17:27	253717	-0:18	0:21	88	6.30	.00	224	62	26	4565	1490	5.21
291	3.0C	819	246	16:47:17	-56:58:1	244194	0:5	1:54	88	9.60	9.51	46	4	23	88	161	7.64
292	4.1C	517	250	16:47:17	-56:58:1	244194	-0:3	1:9	88	9.60	9.51	57	5	27	128	134	7.84
293	3.0C	501	241	16:47:53	-56:34:17	244206	-0:3	1:42	88	9.08	8.85	56	6	24	153	168	7.41
294	4.1C	499	245	16:47:53	-56:34:17	244206	0:1	1:30	88	9.08	8.85	69	8	28	247	198	7.59
295	1.0L	535	268	16:47:54	-57:29:47	244208	-0:1	2:18	89	7.29	.00	182	30	98	1247 H	1600	6.08
296	3.0L	535	268	16:47:54	-57:29:47	244208	0:3	1:35	89	7.29	.00	376	49	235	2777 H	2500	5.59
297	3.0C	539	262	16:47:54	-57:29:47	244208	0:9	0:59	89	7.29	.00	161	27	26	1517 H	690	6.05
298	4.1C	537	265	16:47:54	-57:29:47	244208	-0:3	1:55	89	7.29	.00	146	34	30	2160 H	690	6.05
299	1.0L	522	262	16:47:55	-57:9:18	NO*	-0:2	0:22				185	9	102	271	565	7.22
300	3.0L	522	261	16:47:55	-57:9:18	NO*	0:2	-0:21				327	13	240	6037	380	7.65

# NRL REPORT 8487

NORMA. R.A. 17:24 DEC. -59:04 (4 FRAMES)									
OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAO NO.	Δ R.A.	Δ DEC.	SPEC. TYPE
301	4.1C	398	191	16:48:10	-54: 8:34	244215	-0:10	0:51	A0
302	3.0L	670	340	16:48:23	-60:44: 2	253724	-0:11	-0:40	A0
303	3.0C	674	334	16:48:23	-60:44: 2	253724	-0:11	-0:28	A0
304	4.1C	672	338	16:48:23	-60:44: 2	253724	-0:14	-0:54	A0
305	3.0C	524	260	16:48:45	-57:10:25	NO*	-0: 2	0: 6	
306	4.1C	522	264	16:48:45	-57:10:25	NO*	0: 3	-0: 7	
307	3.0L	378	199	16:48:55	-53:52: 7	244252	-0:14	1:54	B9
308	3.0C	382	193	16:49:55	-53:52: 7	244252	-0: 6	1:16	B9
309	4.1C	380	197	16:49:55	-53:52: 7	244252	-0: 7	1:37	B9
310	1.0L	398	213	16:49:59	-54:21:23	244253	-0:13	1:45	B8
311	3.0L	398	211	16:49:59	-54:21:23	244253	-0:16	1:35	B8
312	3.0C	402	205	16:49:59	-54:21:23	244253	-0: 4	2: 3	B8
313	4.1C	400	208	16:49:59	-54:21:23	244253	-0: 6	2:24	B8
314	3.0L	348	186	16:50:22	-53:11:17	244261	-0:13	2:19	B8
315	3.0C	353	180	16:50:22	-53:11:17	244261	-0: 9	0:33	B8
316	4.1C	350	184	16:50:22	-53:11:17	244261	0: 2	1:27	B8
317	3.0L	306	167	16:50:31	-52:15:28	244284	0: 9	2:39	A0
318	4.1C	308	164	16:50:31	-52:15:28	244284	0:22	3:26	A0
319	1.0L	769	408	16:50:43	-63:11:21	253734	-0: 5	-1:10	A0
320	3.0L	769	406	16:50:43	-63:11:21	253734	-0:15	-1:20	A0
321	3.0C	773	401	16:50:43	-63:11:21	253734	-0:11	-1:53	A0
322	4.1C	534	286	16:50:54	-57:38:12	244269	-0: 7	-1: 4	A0
323	3.0L	306	167	16:50:58	-52:13:35	244270	-0:17	0:46	B5
324	3.0C	310	161	16:50:58	-52:13:35	244270	-0: 5	1:13	B5
325	3.0C	308	164	16:50:58	-52:13:35	244270	-0: 5	1:33	B5
326	1.0L	231	138	16:51:33	-50:33:24	244275?	0:34	-0:42	B5
327	3.0C	235	129	16:51:33	-50:33:24	244275?	0:39	0: 2	B5
328	3.0L	696	376	16:51:44	-61:33:40	253740	-0:10	-0:12	A0
329	3.0C	697	374	16:51:44	-61:33:40	253740	-0: 6	-0:47	A0
330	4.1C	633	347	16:51:51	-60: 4:52	253744	-0:10	0:37	A0
331	3.0L	633	345	16:51:51	-60: 4:52	253744	-0: 6	-0:26	B9
332	3.0C	636	340	16:51:51	-60: 4:52	253744	-0:13	-0:37	B9
333	4.1C	634	343	16:51:51	-60: 4:52	253744	0: 6	-0:40	B9
334	3.0C	231	138	16:52:16	-50:35:45	244280/	-0:10	0:11	B9
335	3.0L	231	136	16:52:16	-50:35:45	244280/	-0:10	1:38	B3
336	3.0C	235	129	16:52:16	-50:35:45	244280/	-0: 6	2:30	B3
337	4.1C	233	132	16:52:16	-50:35:45	244280/	-0: 5	2:23	B3
338	3.0L	710	386	16:52:18	-61:54:59	253745	-0: 3	2:42	B3
339	3.0C	713	381	16:52:18	-61:54:59	253745	-0:15	-0:16	A0
340	4.1C	711	384	16:52:18	-61:54:59	253745	-0: 6	0:16	A0
341	3.0L	299	180	16:52:32	-52:12:16	244285	-0:16	0:32	A0
342	3.0C	299	178	16:52:32	-52:12:16	244285	-0: 5	1:29	A0
343	3.0L	304	172	16:52:32	-52:12:16	244285	-0: 6	1:15	A0
344	4.1C	302	175	16:52:32	-52:12:16	244285	-0: 9	0: 1	A0
345	3.0L	280	168	16:52:34	-51:45:20	244286	-0: 8	0:19	A0
346	4.1C	282	164	16:52:34	-51:45:20	244286	-0: 5	0:22	B8
347	3.0L	648	362	16:53: 2	-60:31:20	253748	-0:10	1: 5	B8
348	3.0C	648	361	16:53: 2	-60:31:20	253748	-0: 8	0:42	B8
349	3.0L	648	361	16:53: 2	-60:31:20	253748	-0: 6	-0: 3	B8

PEAK DEN.	P MAG.	V MAG.	NO. OF POINTS	BG	DENSITY VOLUME	CORR. V/E	UV MAG.
58	9.17	9.20	7	27	184	152	7.70
255	8.22	8.64	9	220	243	340	7.77
58	8.22	8.64	6	26	151	194	7.43
117	8.22	8.64	11	31	329	188	7.47
132	8.47	8.73	17	23	639	445	6.53
281	8.47	8.73	16	27	840	316	6.90
55	8.47	8.73	240	26	357	445	7.48
66	8.47	8.73	6	26	151	194	7.43
146	8.47	8.73	13	27	363	193	7.44
146	8.47	8.73	15	98	495	898	6.71
345	8.47	8.73	32	241	1656	1544	6.12
140	8.47	8.73	29	23	1548	715	6.01
185	8.47	8.73	37	27	2423	755	5.95
273	8.47	8.73	10	243	243	365	7.69
51	8.47	8.73	7	23	170	206	7.37
67	8.47	8.73	14	27	418	214	7.33
275	8.47	8.73	17	241	457	540	7.27
92	8.47	8.73	27	27	1033	384	6.69
115	8.47	8.73	4	92	89	368	7.68
251	8.47	8.73	18	203	578	545	7.26
80	8.47	8.73	15	21	568	350	6.79
96	8.47	8.73	20	25	854	335	6.84
55	8.47	8.73	4	27	105	125	7.91
275	8.47	8.73	17	241	457	540	7.27
68	8.47	8.73	21	23	842	385	6.69
92	8.47	8.73	27	27	1033	384	6.69
194	8.47	8.73	82	92	4057	6223	4.60
257	8.47	8.73	104	24	8719	4250	4.07
255	8.47	8.73	8	219	226	320	7.84
73	8.47	8.73	8	29	251	230	7.25
91	8.47	8.73	13	35	481	215	7.32
124	8.47	8.73	6	94	151	445	7.48
284	8.47	8.73	17	220	648	635	7.09
83	8.47	8.73	15	24	543	335	6.84
116	8.47	8.73	20	28	201	340	6.82
194	8.47	8.73	82	92	4057	6223	4.60
428	8.47	8.73	104	24	10814	15600	3.60
257	8.47	8.73	124	29	8719	4250	4.07
360	8.47	8.73	6	214	12952	5250	3.83
244	8.47	8.73	4	29	146	243	8.14
59	8.47	8.73	4	29	115	175	7.55
80	8.47	8.73	10	34	322	180	7.51
161	8.47	8.73	82	93	1906	2860	5.45
378	8.47	8.73	69	234	4277	4500	4.95
194	8.47	8.73	53	25	3629	1540	5.17
260	8.47	8.73	66	27	5552	1860	4.97
260	8.47	8.73	14	231	355	460	7.44
244	8.47	8.73	9	27	212	164	7.62
54	8.47	8.73	35	95	2083	3120	5.35
410	8.47	8.73	69	213	4707	4900	4.86

PAGE, CARRUTHERS, AND HECKATHORN

NORMA, R.A. 17:24 DEC. -59:04 (14 FRAMES)

OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAO NO.	Δ R.A.	Δ DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	BG	DENSITY VOLUME	CORR. V/E	UV MAG.
351	3.0C	652	355	16:53:2	-60:31:20	253748	-0:10	-0:6	88	6.81	.00	234	49	28	3421	1440	5.25
352	4.1C	649	359	16:53:2	-60:31:20	253748	-0:4	0:43	88	6.81	.00	286	62	31	4955	1650	5.10
353	1.0L	446	267	16:53:25	-55:46:28	244297	-0:8	1:52	85	8.32	8.01	125	5	96	123	423	7.53
354	3.0C	446	265	16:53:25	-55:46:28	244297	-0:11	1:39	85	8.32	8.01	293	17	229	617	640	7.08
355	3.0C	450	259	16:53:25	-55:46:28	244297	-0:4	0:59	85	8.32	8.01	91	16	22	621	370	6.73
356	4.1C	448	263	16:53:25	-55:46:28	244297	0:1	0:43	85	8.32	8.01	105	19	26	849	326	6.87
357	1.0L	577	334	16:53:47	-58:54:56	244303	0:3	1:51	89	8.23	.00	121	4	96	90	362	7.70
358	3.0L	577	332	16:53:47	-58:54:56	244303	-0:2	1:38	89	8.23	.00	275	17	221	576	590	7.17
359	3.0C	581	327	16:53:47	-58:54:56	244303	0:3	1:0	89	8.23	.00	72	11	23	369	275	7.05
360	4.1C	579	330	16:53:47	-58:54:56	244303	-0:2	1:15	89	8.23	.00	97	15	28	571	248	7.17
361	1.0L	526	310	16:53:51	-57:41:32	244304	-0:2	0:0	89	7.70	.00	171	19	95	817	1559	6.11
362	3.0L	526	308	16:53:51	-57:41:32	244304	-0:2	0:55	89	7.70	.00	361	42	222	2406	2120	5.77
363	3.0C	530	302	16:53:51	-57:41:32	244304	0:4	0:16	89	7.70	.00	143	28	22	1626	740	5.97
364	4.1C	527	306	16:53:51	-57:41:32	244304	0:4	1:40	89	7.70	.00	195	34	28	2208	710	6.02
365	1.0L	526	310	16:53:54	-57:42:40	244306	-0:5	1:8	89	7.71	.00	171	19	95	817	1559	6.11
366	3.0L	526	308	16:53:54	-57:42:40	244306	-0:3	2:3	89	7.71	.00	361	42	222	2406	2120	5.77
367	3.0C	530	302	16:53:54	-57:42:40	244306	0:1	1:24	89	7.71	.00	143	28	22	1626	740	5.97
368	4.1C	527	306	16:53:54	-57:42:40	244306	0:0	2:47	89	7.71	.00	195	34	28	2208	710	6.02
369	1.0L	355	223	16:53:55	-53:45:47	244307	-0:18	9:26	A0	8.38	.00	129	9	83	261	385	7.64
370	1.0L	362	230	16:53:55	-53:45:47	244307	-0:2	0:0	A0	8.38	.00	116	6	92	131	949	6.65
371	3.0L	355	221	16:53:55	-53:45:47	244307	0:10	8:39	A0	8.38	.00	297	13	195	690	575	7.20
372	3.0L	363	228	16:53:55	-53:45:47	244307	0:4	-3:36	A0	8.38	.00	280	30	225	949	920	6.68
373	3.0C	364	218	16:53:55	-53:45:47	244307	-0:8	1:17	A0	8.38	.00	52	8	20	208	410	7.35
374	3.0C	367	222	16:53:55	-53:45:47	244307	-0:12	-4:15	A0	8.38	.00	77	19	21	661	210	6.62
375	4.1C	365	225	16:53:55	-53:45:47	244307	0:3	-3:27	A0	8.38	.00	96	42	24	1541	415	6.60
376	4.1C	362	221	16:53:55	-53:45:47	244307	-0:3	1:47	A0	8.38	.00	66	16	24	487	192	7.44
377	3.0C	654	363	16:54:1	-60:37:52	253754	-0:4	-0:17	A0	8.53	8.55	56	4	29	100	165	7.61
378	4.1C	651	367	16:54:1	-60:37:52	253754	-0:2	0:31	A0	8.53	8.55	68	9	33	257	171	7.57
379	1.0L	362	230	16:54:14	-53:50:39	244311	-0:9	2:52	A0	8.32	7.80	116	6	92	131	949	6.65
380	3.0L	363	228	16:54:14	-53:50:39	244311	-0:15	1:17	A0	8.32	7.80	280	30	225	949	920	6.68
381	3.0C	367	222	16:54:14	-53:50:39	244311	-0:8	0:37	A0	8.32	7.80	77	19	21	661	410	6.62
382	4.1C	362	221	16:54:14	-53:50:39	244311	-0:27	6:39	A0	8.32	7.80	66	16	24	487	192	7.44
383	4.1C	365	225	16:54:14	-53:50:39	244311	-0:16	1:25	A0	8.32	7.80	96	42	24	1541	415	6.60
384	3.0L	451	275	16:54:24	-55:57:35	244312	-0:9	1:39	89	8.97	8.74	266	11	226	331	415	7.55
385	3.0C	455	269	16:54:24	-55:57:35	244312	-0:10	1:32	89	8.97	8.74	55	4	22	124	181	7.51
386	4.1C	452	273	16:54:24	-55:57:35	244312	-0:1	2:22	89	8.97	8.74	71	11	26	352	195	7.43
387	1.0L	221	153	16:54:25	-50:33:51	244313	-0:10	2:19	89	5.70	.00	126	29	88	813	1986	5.85
388	3.0L	222	151	16:54:25	-50:33:51	244313	-0:13	0:56	89	5.70	.00	323	89	225	390	3520	5.22
389	3.0C	226	144	16:54:25	-50:33:51	244313	-0:8	1:54	89	5.70	.00	118	53	25	2509	1150	5.49
390	4.1C	224	147	16:54:25	-50:33:51	244313	-0:13	2:42	89	5.70	.00	157	72	26	4222	1400	5.28
391	3.0C	455	269	16:54:28	-55:54:48	244315	-0:14	-1:15	K5	3.06	.00	55	4	22	124	181	7.51
392	4.1C	452	273	16:54:28	-55:54:48	244315	-0:5	-0:25	K5	3.06	.00	71	11	26	352	195	7.43
393	4.1C	512	309	16:55:15	-57:26:53	244323	-0:7	2:20	88	9.10	8.86	59	6	26	164	147	7.74
394	1.0L	563	348	16:56:46	-58:46:36	244353	-0:7	1:11	88	7.71	7.30	170	32	95	1292	1680	6.03
395	1.0L	465	304	16:56:55	-56:28:52	244356	-0:4	2:6	89	6.55	.00	162	16	97	605	885	6.75
396	3.0L	465	302	16:56:55	-56:28:52	244356	-0:8	1:50	89	6.55	.00	346	27	224	1563	1300	6.31
397	3.0C	469	290	16:56:55	-56:28:52	244356	-0:1	1:9	89	6.55	.00	142	24	23	1353	620	6.17
398	1.0L	566	355	16:56:55	-56:28:52	244362	0:4	0:49	89	6.55	.00	167	33	26	1938	625	6.16
399	1.0L	566	355	16:57:26	-58:53:8	244362	0:2	0:31	80	6.32	.00	389	88	97	7206	16000	3.57
400	3.0L	566	354	16:57:26	-58:53:8	244362	0:5	-0:17	80	6.32	.00	457	192	212	17123	24500	3.10



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OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	S.A.O. NO.	Δ R.A.	Δ DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	B.G.	DENSITY VOLUME	CORR. V/E	UV MAG.
401	3.0C	570	348	16:57:26	-58:53:8	244362/	0:2	-0:24	80	6.32	.00	374	159	25	14218	8050	3.37
402	4.1C	567	351	16:57:26	-58:53:8	244362/	0:1	0:55	80	6.32	.00	409	192	28	18959	8050	3.37
403	3.0L	566	354	16:57:32	-58:58:31	244363:	-0:1	5:6	89	7.65	.00	457	192	212	17123 H	24500	3.10
404	3.0C	570	348	16:57:32	-58:58:31	244363:	-0:1	4:59	89	7.65	.00	374	159	25	14218 H	8050	3.37
405	1.0L	566	355	16:57:35	-58:57:1	244367:	-0:7	4:25	A	8.84	8.49	389	88	97	7206 H	16000	3.57
406	3.0L	566	354	16:57:35	-58:57:1	244367:	-0:7	3:36	A	8.84	8.49	457	192	212	17123 H	24500	3.10
407	3.0C	570	348	16:57:35	-58:57:1	244367:	-0:7	3:29	A	8.84	8.49	374	159	25	14218 H	8050	3.37
408	4.1C	567	351	16:57:35	-58:57:1	244367:	-0:8	4:49	A	8.84	8.49	409	192	28	18959 H	8050	3.37
409	3.0L	353	255	16:57:55	-53:54:10	244371	-0:11	1:35	88	8.75	8.53	253	9	221	234 L	325	7.82
410	3.0C	357	249	16:57:55	-53:54:10	244371	-0:4	0:54	88	8.75	8.53	59	9	21	262 L	245	7.18
411	4.1C	355	252	16:57:55	-53:54:10	244371	-0:12	1:38	88	8.75	8.53	52	7	25	162?	149	7.24
412	4.1C	854	500	16:59:12	-65:35:23												7.72
413	3.0L	275	231	16:59:23	-52:14:47	244390/	0:18	1:28	88	9.30	9.14	261	22	215	687 H	670	7.03
414	3.0C	279	225	16:59:23	-52:14:47	244390/	0:26	0:46	88	9.30	9.14	55	12	21	326	273	7.06
415	4.1C	277	228	16:59:23	-52:14:47	244390/	0:19	1:27	88	9.30	9.14	72	23	26	710 H	295	6.98
416	4.1C	366	271	16:59:27	-54:17:12	244392	-0:2	1:2	88	8.49	8.25	54	5	25	129 L	137	7.81
417	3.0C	275	231	16:59:32	-51:7:56	244393?	0:24	7:9	A3	7.90	.00	114	47	21	2672 H	1070	5.57
418	3.0L	275	231	16:59:56	-52:13:16	244396/	-0:16	-0:3	85	9.27	9.05	261	22	215	687	670	7.03
419	3.0C	277	228	16:59:56	-52:13:16	244396/	-0:8	-0:45	85	9.27	9.05	55	12	21	326	273	7.06
420	4.1C	277	228	16:59:56	-52:13:16	244396/	-0:15	-0:4	85	9.27	9.05	72	23	26	710	295	6.98
421	1.0L	221	207	17:0:5	-51:0:45	244398/	-0:3	-0:1	88	9.50	.00	128	29	85	900 H	1991	5.84
422	3.0L	222	204	17:0:5	-51:0:45	244398/	-0:11	0:9	88	9.50	.00	311	57	214	2855 H	2500	5.59
423	3.0C	226	198	17:0:5	-51:0:45	244398/	-0:9	-0:2	88	9.50	.00	114	47	21	2872 H	1070	5.57
424	4.1C	224	201	17:0:5	-51:0:45	244398/	-0:8	0:10	88	9.50	.00	149	60	25	3393 H	1090	5.55
425	1.0L	221	207	17:0:6	-51:0:56	244399/	-0:4	0:17	88	9.50	10.90	128	29	85	900 H	1991	5.84
426	3.0L	222	204	17:0:6	-51:0:56	244399/	-0:11	0:20	88	9.50	10.90	311	57	214	2855 H	2500	5.59
427	3.0C	226	198	17:0:6	-51:0:56	244399/	-0:10	0:9	88	9.50	10.90	114	47	21	2872 H	1070	5.57
428	4.1C	224	201	17:0:6	-51:0:56	244399/	-0:9	0:18	88	9.50	10.90	149	60	25	3393 H	1090	5.55
429	1.0L	221	207	17:0:7	-51:0:49	244400/	-0:5	0:13	88	8.74	.00	128	29	85	900 H	1991	5.84
430	3.0L	222	204	17:0:7	-51:0:49	244400/	-0:12	0:13	88	8.74	.00	311	57	214	2855 H	2500	5.59
431	3.0C	226	198	17:0:7	-51:0:49	244400/	-0:11	0:2	88	8.74	.00	114	47	21	2872 H	1070	5.57
432	4.1C	224	201	17:0:7	-51:0:49	244400/	-0:10	0:11	88	8.74	.00	149	60	25	3393 H	1090	5.55
433	1.0L	595	347	17:0:8	-57:38:32	244401	0:3	2:9	83	5.88	.00	354	53	95	4173 L	6950	4.49
434	3.0L	505	345	17:0:8	-57:38:32	244401	-0:1	1:50	83	5.88	.00	432	83	224	6200 L	7550	4.39
435	3.0C	509	339	17:0:8	-57:38:32	244401	0:5	1:9	83	5.88	.00	343	85	32	7006 L	3430	4.30
436	4.1C	507	343	17:0:8	-57:38:32	244401	0:1	1:17	83	5.88	.00	392	116	29	10499 L	4060	4.12
437	3.0L	233	217	17:0:29	-51:18:24	244405:	0:5	-1:19		9.80	9.60	248	22	211	613	600	7.15
438	3.0C	238	211	17:0:29	-51:18:24	244405:	0:13	-2:1		9.80	9.60	47	5	23	80	182	7.50
439	4.1C	235	214	17:0:29	-51:18:24	244405:	0:14	-1:53		9.80	9.60	61	16	26	449	223	7.28
440	1.0L	557	372	17:0:32	-58:52:25	244406	-0:5	1:36	88	8.44	8.00	126	8	90	224	530	7.29
441	3.0L	557	371	17:0:32	-58:52:25	244406	-0:2	0:46	88	8.44	8.00	276	11	206	820	720	6.95
442	3.0C	561	365	17:0:32	-58:52:25	244406	0:4	0:5	88	8.44	8.00	83	13	22	479	310	6.92
443	4.1C	558	369	17:0:32	-58:52:25	244406	0:2	1:22	88	8.44	8.00	99	19	25	803	320	6.89
444	3.0L	233	217	17:0:49	-51:20:21	244409/	-0:5	0:37	83	9.00	8.60	746	22	211	613 L	600	7.15
445	3.0C	238	211	17:0:49	-51:20:21	244409/	-0:6	0:4	83	9.00	8.60	47	5	23	115 L	182	7.50
446	4.1C	235	214	17:0:49	-51:20:21	244409/	-0:5	0:4	83	9.00	8.60	61	16	26	449 L	223	7.28
447	3.0L	275	252	17:2:6	-52:27:35	244432/	-0:0	2:56	A0	8.27	8.05	243	16	207	433	460	7.44
448	3.0C	279	246	17:2:6	-52:27:35	244432/	-0:3	3:52	A0	8.27	8.05	54	10	20	278	260	7.11
449	4.1C	277	249	17:2:6	-52:27:35	244432/	0:0	2:51	A0	8.27	8.05	71	16	26	484	233	7.23
450	3.0L	258	241	17:2:8	-51:59:6	244433	-0:15	-0:4	89	9.23	8.96	235	7	208	169	256	8.08

PAGE, CARRUTHERS, AND HECKATHORN

NORMA, R.A. 17:24 DEC. -59:04 (4 FRAMES)																	
OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAO NO.	Δ R.A.	Δ DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	BG	DENSITY VOLUME	CORR. V/E	UV MAG.
451	4.1C	259	238	17: 2: 8	-51:59: 6	244433	-0:11	0:60	B9	9:23	8:96	53	7	25	167	148	7.73
452	3.0L	275	252	17: 2:16	-52:24:55	244435/	-0:11	0:15	B8	8:38	7:99	243	16	207	433 L	460	7.44
453	3.0C	279	246	17: 2:16	-52:24:55	244435/	-0: 7	1:12	B8	8:38	7:99	54	10	20	278 L	260	7.11
454	4.1C	277	249	17: 2:16	-52:24:55	244435/	-0:10	0:10	B8	8:38	7:99	71	16	26	484 L	233	7.23
455	4.1C	413	318	17: 2:27	-55:36:55	244438	-0: 0	2:33	B8	8:76	8:51	52	4	25	100 L	122	7.94
456	4.1C	428	327	17: 2:49	-55:58:18	244442	-0: 8	0:57	A0	8:06	.00	54	4	25	97 L	122	7.94
457	4.1C	526	371	17: 3:30	-58: 7:35	244449?	-0:39	-7:16	A2	9:26	9:23	58	5	25	123	137	7.81
458	3.0L	470	350	17: 4: 0	-57: 5:13	244455	0: 3	2:32	B8	9:50	9:25	232	7	207	154?	242	8.14
459	3.0L	524	412	17: 4:47	-59:44:58	244461	-0: 1	-0: 6	B8	8:40	7:96	225	8	195	194 L	267	8.03
460	4.1C	585	410	17: 4:47	-59:44:58	244461	0: 2	0:24	B8	8:40	7:96	58	5	26	138 L	139	7.80
461	3.0C	337	297	17: 4:51	-53:56:22	NO	-0: 7	0:28				55	5	23	129	190	7.46
462	4.1C	335	302	17: 4:51	-53:56:22	NO	0: 8	-0:28				59	5	27	143	137	7.81
463	1.0L	355	315	17: 4:52	-54:26: 0	NO	-0: 3	0:27				121	4	90	102	390	7.62
464	3.0L	355	314	17: 4:52	-54:26: 0	NO	0: 2	-0:26				255	7	208	227?	295	7.93
465	1.0L	315	300	17: 5: 8	-53:32: 7	NO	0: 0	0:25				114	4	88	91	370	7.68
466	3.0L	315	298	17: 5: 8	-53:32: 7	NO	-0: 1	-0:25				251	9	207	273?	336	7.78
467	4.1C	188	233	17: 5:30	-50:37:50	253818	-0: 5	-1:14	B9	6:52	.00	78	17	26	508?	240	7.20
468	1.0L	664	452	17: 5:31	-61:36:44	253818	-0: 9	-0:28	B9	6:52	.00	167	19	87	812	1080	6.51
469	3.0C	663	450	17: 5:31	-61:36:44	253818	-0: 9	-0:28	B9	6:52	.00	341	33	198	2107	1680	6.03
470	3.0C	667	445	17: 5:31	-61:36:44	253818	0: 0	0: 0	B9	6:52	.00	150	30	24	1647	750	5.96
471	4.1C	665	448	17: 5:31	-61:36:44	253818	-0: 9	0: 1	B9	6:52	.00	177	37	28	2305	735	5.98
472	3.0L	354	319	17: 5:39	-54:27: 9	NO	-0: 1	-0:38				244	10	207	258	330	7.80
473	3.0C	357	312	17: 5:39	-54:27: 9	NO	-0: 6	0:48				76	10	20	355	270	7.07
474	4.1C	355	317	17: 5:39	-54:27: 9	NO	0: 8	-0:10				75	10	24	3590	158	7.66
475	3.0C	317	296	17: 5:42	-53:34:24	NO	0: 2	1:57				67	9	22	288	253	7.14
476	4.1C	318	300	17: 5:42	-53:34:24	NO	-0: 1	-1:57				57	7	24	1810	198	7.41
477	3.0L	292	294	17: 6: 1	-53: 4:41	NO*	-0: 1	-1:57				237	6	204	163	245	8.13
478	3.0L	288	293	17: 6: 6	-52:59:36	NO						232	6	203	159	236	8.17
479	4.1C	315	302	17: 6: 7	-53:33:54	NO*	0: 5	-0:16				70	12	26	381?	203	7.38
480	3.0C	356	319	17: 6:27	-54:28:25	NO*	-0: 5	0:15				54	7	21	186	216	7.32
481	4.1C	354	322	17: 6:27	-54:28:25	NO*	-0: 5	0:15				61	8	27	222	168	7.59
482	3.0C	297	294	17: 6:44	-53: 9: 1	NO	0: 3	0:22				55	12	22	323	268	7.08
483	3.0L	291	301	17: 6:47	-53: 6:51	NO	-0: 4	0:37				237	12	198	336	370	7.68
484	3.0C	295	293	17: 6:47	-53: 6:51	NO	-0: 0	0:37				66	7	21	235	233	7.23
485	4.1C	294	298	17: 6:47	-53: 6:51	NO	0: 0	-1: 0				73	18	26	556	250	7.16
486	3.0C	292	292	17: 6:52	-53: 2:46	NO	-0: 7	0:28				60	8	21	246	240	7.20
487	4.1C	290	297	17: 6:52	-53: 2:46	NO	0: 8	-0:29				70	14	25	432	218	7.31
488	1.0L	296	306	17: 6:57	-53:13:28	NO	0: 1	0:12				120	5	85	149	455	7.45
489	3.0L	296	304	17: 6:57	-53:13:28	NO	0: 0	-0:13				286	11	201	528?	465	7.43
490	1.0L	534	411	17: 7:22	-58:45:14	244498	0: 1	1:14	B9	7:31	.00	112	5	85	114 L	425	7.53
491	3.0L	534	419	17: 7:22	-58:45:14	244498	-0: 6	0:33	B9	7:31	.00	257	13	197	491	323	7.83
492	3.0C	538	413	17: 7:22	-58:45:14	244498	0: 0	-0:11	B9	7:31	.00	77	11	22	386 L	282	7.02
493	4.1C	536	407	17: 7:22	-58:45:14	244498	-0: 5	-0:11	B9	7:31	.00	90	17	24	674	280	7.03
494	3.0L	154	237	17: 7:23	-50: 6:15	244499:	-0: 5	2:48				9.80	13	193	372 H	385	7.64
495	3.0C	158	231	17: 7:23	-50: 6:15	244499:	-0: 3	2:34				9.80	9	23	205 H	225	7.27
496	4.1C	156	234	17: 7:23	-50: 6:15	244499:	-0: 1	2:34				9.80	23	26	628 H	284	7.02
497	3.0L	154	237	17: 7:33	-50: 3:29	244502:	-0:15	0: 2	A0	7:46	.00	229	13	193	372	385	7.64
498	3.0C	158	231	17: 7:33	-50: 3:29	244502:	-0:14	-0:13	A0	7:46	.00	49	9	23	205 L	225	7.27
499	4.1C	156	234	17: 7:33	-50: 3:29	244502:	-0:12	-0:12	AU	7:46	.00	62	23	26	628	284	7.02
500	1.0L	395	356	17: 7:42	-55:34:10	244505	0: 6	1:33	B8	8:30	8.00	123	6	90	159	458	7.45

NORMA, R.A. 17:24 DEC. -59:04 (4 FRAMES)

OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAO NO.	Δ R.A.	Δ DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	BG	DENSITY VOLUME	CORR. V/E	UV MAG.
501	3.0L	395	354	17: 7:42	-55:34:10	244505	0: 3	1: 7	88	8.30	8.00	272	18	208	680	625	7.11
502	3.0C	399	348	17: 7:42	-55:34:10	244505	0: 2	0:52	88	8.30	8.00	83	14	22	516	328	6.86
503	4.1C	397	351	17: 7:42	-55:34:10	244505	-0: 1	0:53	88	8.30	8.00	105	18	26	757	302	6.95
504	1.0L	356	339	17: 7:44	-54:39:19	NO	0: 2	0:19				116	3	88	71	313	7.86
505	3.0L	356	337	17: 7:44	-54:39:19	NO	-0: 1	-0:18				241	5	202	152?	228	8.21
506	3.0C	299	303	17: 7:44	-53:14:54	NO	-0: 5	-0:19				87	11	21	447	297	6.97
507	4.1C	296	307	17: 7:44	-53:14:54	NO	0: 5	0:20				101	11	26	471	216	7.32
508	3.0C	293	300	17: 7:45	-53: 6:46	NO	-0:10	-0: 6				56	6	20	174	206	7.37
509	4.1C	290	305	17: 7:45	-53: 6:46	NO	0: 9	0: 5				65	9	24	289	182	7.50
510	1.0L	747	502	17: 7:48	-63:37:30	253826	-0: 8	-0:43	89	7.04	.00	119	7	87	194 L	505	7.34
511	3.0L	747	501	17: 7:48	-63:37:30	253826	-0: 8	-1:37	89	7.04	.00	275	22	202	843 L	730	6.94
512	3.0C	750	495	17: 7:48	-63:37:30	253826	-0:11	-0:40	89	7.04	.00	103	18	24	821 L	435	6.55
513	4.1C	748	499	17: 7:48	-63:37:30	253826	-0:12	-1:11	89	7.04	.00	141	24	27	1252	430	6.56
514	3.0C	358	336	17: 8:38	-54:39:55	NO*	-0: 9	-0: 5				65	8	20	237	237	7.21
515	4.1C	355	341	17: 8:38	-54:39:55	NO*	0: 9	0: 5				75	10	25	325	191	7.45
516	1.0L	296	327	17: 9:31	-53:24:13	244532	-0: 2	0:10	88	8.12	7.70	132	13	85	422	715	6.96
517	3.0L	296	324	17: 9:31	-53:24:13	244532	-0:11	0:11	88	8.12	7.70	309	29	201	1499	1150	6.44
518	3.0C	300	318	17: 9:31	-53:24:13	244532	-0: 3	-0:33	88	8.12	7.70	118	25	23	560	560	6.28
519	4.1C	298	321	17: 9:31	-53:24:13	244532	-0:11	-0: 6	88	8.12	7.70	149	33	25	1731	572	6.25
520	1.0L	701	493	17: 9:35	-62:40:34	253841	-0: 8	-0: 2	88	7.23	.00	159	21	87	852	1150	6.44
521	3.0L	701	492	17: 9:35	-62:40:34	253841	-0: 8	-0:58	88	7.23	.00	339	32	199	2052	1600	6.08
522	3.0C	705	486	17: 9:35	-62:40:34	253841	-0:14	-1:11	88	7.23	.00	147	32	27	1673	760	5.94
523	4.1C	702	490	17: 9:35	-62:40:34	253841	-0:10	-0:34	88	7.23	.00	199	37	32	2300	725	5.99
524	4.1C	558	432	17: 9:38	-59:23:21	244542	-0:17	-1:17	85	9.60	9.29	222	6	25	197?	156	7.67
525	3.0L	235	300	17:10:11	-52: 2:28	244542	-0: 5	-0:55	85	9.60	9.29	52	7	194	150 L	223	8.23
526	4.1C	236	298	17:10:11	-52: 2:28	244542	-0: 5	-0:55	85	9.60	9.29	52	7	24	165 L	148	7.73
527	1.0L	405	380	17:10:20	-55:57: 0	244544	-0: 4	0: 1	85	7.97	.00	178	25	89	1062 H	1370	6.25
528	3.0L	405	378	17:10:20	-55:57: 0	244544	-0: 4	0: 1	85	7.97	.00	349	45	204	2442	2000	5.84
529	3.0C	409	372	17:10:20	-55:57: 0	244544	-0: 5	-0:15	85	7.97	.00	143	30	22	1652	755	5.95
530	4.1C	406	375	17:10:20	-55:57: 0	244544	-0: 4	0:52	85	7.97	.00	174	35	28	2204	705	5.03
531	3.0L	393	348	17:10:28	-54:18:45	244546	-0: 9	0:55	88	8.56	8.25	249	11	202	361	386	7.63
532	3.0C	337	342	17:10:28	-54:18:45	244546	-0: 9	0:55	88	8.56	8.25	67	10	21	332	268	7.08
533	4.1C	335	346	17:10:28	-54:18:45	244546	-0: 1	0:10	88	8.56	8.25	85	16	24	620	268	7.08
534	4.1C	386	369	17:10:36	-55:30: 1	244551	-0: 2	0: 7	88	8.56	8.25	62	12	26	322?	193	7.44
535	3.0L	482	413	17:10:57	-57:45:42	244551	-0: 9	0:32	89	7.92	7.55	231	7	199	186 L	216	8.27
536	3.0C	486	408	17:10:57	-57:45:42	244551	0:10	0:28	89	7.92	7.55	54	6	22	154 L	198	7.41
537	4.1C	483	411	17:10:57	-57:45:42	244551	0: 1	2: 3	89	7.92	7.55	66	9	25	275 L	180	7.51
538	1.0L	695	500	17:11: 4	-62:35:34	253849	-0: 1	-1:27	88	8.44	7.99	124	10	85	292	600	7.15
539	3.0L	694	498	17:11: 4	-62:35:34	253849	-0: 6	-0:45	88	8.44	7.99	272	22	197	879	730	6.94
540	3.0C	698	493	17:11: 4	-62:35:34	253849	-0: 2	-1:29	88	8.44	7.99	84	16	25	597	360	6.76
541	4.1C	695	496	17:11: 4	-62:35:34	253849	-0: 8	-0:24	88	8.44	7.99	110	23	27	974	367	6.74
542	1.0L	184	294	17:11:49	-51: 1:38	244562	-0: 3	-0:15	88	7.31	.00	117	13	80	385	1229	6.37
543	3.0L	184	291	17:11:49	-51: 1:38	244562	-0:10	-0:17	88	7.31	.00	270	40	192	1662	1350	6.27
544	3.0C	188	285	17:11:49	-51: 1:38	244562	-0: 2	-1: 2	88	7.31	.00	97	33	21	1451	595	6.21
545	4.1C	186	288	17:11:49	-51: 1:38	244562	-0: 8	-0:38	88	7.31	.00	127	43	25	2231	695	6.04
546	1.0L	618	475	17:12: 7	-60:54: 3	253854	-0:10	-0:48	AD	7.62	.00	118	12	80	325	640	7.08
547	3.0L	617	474	17:12: 7	-60:54: 3	253854	-0: 4	-0:35	AD	7.62	.00	270	22	186	934	735	6.93
548	3.0C	621	468	17:12: 7	-60:54: 3	253854	-0: 9	-0:51	AD	7.62	.00	90	14	22	570	343	6.81
549	4.1C	618	472	17:12: 7	-60:54: 3	253854	-0: 3	-0:15	AD	7.62	.00	107	20	25	862	332	6.85
550	1.0L	532	448	17:12:53	-58:59:10	244579	0: 2	-0: 9	88	9.00	8.61	119	8	80	240 H	560	7.23

PAGE, CARRUTHERS, AND HECKATHORN

NORMA, R.A. 17:24 DEC. -59:04 (4 FRAMES)

OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAD NO.	A R.A.	A DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	BG	DENSITY VOLUME	CORR. V/E	UV MAG.
551	3.0L	531	446	17:12:53	-58:59:10	244579	-0: 0	0:32	88	9.00	8.61	268	19	186	778 H	640	7.08
552	3.0C	535	440	17:12:53	-58:59:10	244579	-0: 4	0:14	88	9.00	8.61	82	14	21	497	320	6.89
553	4.1C	532	444	17:12:53	-58:59:10	244579	0: 3	0:50	88	9.00	8.61	97	19	24	803	316	6.90
554	3.0L	347	379	17:13:37	-54:49: 4	244587	-0: 5	-0:26	89	9.04	8.72	216	5	200	100	175	8.50
555	3.0L	239	333	17:13:48	-52:22:38	244593	-0:15	-1:23	88	8.79	8.47	215	4	191	91 L	137	8.76
556	4.1C	240	331	17:13:48	-52:22:38	244593	-0: 0	0: 3	88	8.79	8.47	59	11	23	303	188	7.47
557	1.0L	102	276	17:14: 9	-49:23:57	227793	-0:11	0: 3	85	7.77	.00	112	27	79	687 L	1493	6.16
558	3.0L	102	272	17:14: 9	-49:23:57	227793	-0:24	0:25	85	7.77	.00	273	59	195	2515	1902	5.89
559	3.0C	106	266	17:14: 9	-49:23:57	227793	-0:22	0: 8	85	7.77	.00	93	51	24	2044	1200	5.45
560	4.1C	104	269	17:14: 9	-49:23:57	227793	-0:20	0: 1	85	7.77	.00	123	67	29	3258	1070	5.57
561	1.0L	132	304	17:14:31	-50: 9:27	244608?	1: 2	0: 0	A0	7.10	.00	116	11	79	317	610	7.13
562	3.0L	136	292	17:14:31	-50: 9:27	244608	-0:15	-1: 5	A0	7.10	.00	221	20	187	528 L	465	7.43
563	3.0C	140	286	17:14:31	-50: 9:27	244608	-0:10	-0:14	A0	7.10	.00	59	19	21	552 L	366	6.74
564	4.1C	138	289	17:14:31	-50: 9:27	244608	-0: 8	-0:22	A0	7.10	.00	75	29	26	967	380	6.70
565	3.0C	387	409	17:15:25	-55:50:39	244627	0: 2	0:35	88	8.59	8.25	249	8	210	231 L	310	7.87
566	3.0C	391	403	17:15:25	-55:50:39	244627	0: 1	0:16	88	8.59	8.25	66	8	24	247 L	232	7.24
567	4.1C	388	407	17:15:25	-55:50:39	244627	0:10	0:50	88	8.59	8.25	109	14	25	502	231	7.24
568	1.0L	295	376	17:15:35	-53:45:59	244629	0:11	-0:25	89	8.35	8.00	109	14	82	96	395	7.67
569	3.0L	295	373	17:15:35	-53:45:59	244629	0: 2	-0:30	89	8.35	8.00	256	17	194	599	535	7.28
570	3.0C	299	367	17:15:35	-53:45:59	244629	0: 1	-0:50	89	8.35	8.00	71	12	21	395	290	6.99
571	4.1C	297	370	17:15:35	-53:45:59	244629	0: 1	-0:59	89	8.35	8.00	89	17	25	650	275	7.05
572	1.0L	132	304	17:15:56	-50: 8:42	244632	-0:23	-0:44	A0	9.60	9.50	116	11	79	317 H	760	6.89
573	3.0L	538	474	17:16:12	-59:23:24	244638	0:23	2:24	A0	7.05	.00	201	19	180	496	520	7.31
574	3.0C	545	466	17:16:12	-59:23:24	244638	-0: 4	-0:36	A0	7.05	.00	54	7	23	168 L	207	7.36
575	4.1C	543	470	17:16:12	-59:23:24	244638	-0: 1	-1:13	A0	7.05	.00	69	14	27	380 L	203	7.38
576	1.0L	595	534	17:16:36	-62:52: 5	253880	-0:10	-1: 3	80	9.80	9.37	113	4	88	93 L	380	7.65
577	3.0L	595	532	17:16:36	-62:52: 5	253880	-0:19	-1:35	80	9.80	9.37	263	16	201	598	540	7.27
578	3.0C	698	527	17:16:36	-62:52: 5	253880	0: 3	-0:28	80	9.80	9.37	76	11	27	349 L	266	7.09
579	4.1C	696	530	17:16:36	-62:52: 5	253880	-0: 7	-0:39	80	9.80	9.37	93	14	31	524 L	230	7.25
580	4.1C	539	471	17:16:41	-59:19:15	244643	-0: 8	-0:57	89	9.14	8.73	51	5	27	109 L	129	7.88
581	3.0L	566	485	17:16:45	-59:57:59	244645	-0: 4	-1: 3	A0	7.63	7.20	239	13	180	480	635	7.09
582	3.0C	569	479	17:16:45	-59:57:59	244645	-0: 4	-0:13	A0	7.63	7.20	68	9	23	295	252	7.15
583	4.1C	567	483	17:16:45	-59:57:59	244645	-0: 2	-0:50	A0	7.63	7.20	86	13	28	481	224	7.28
584	3.0L	717	544	17:17: 1	-63:23: 5	253883	-0: 8	-1:49	A0	8.52	8.14	235	8	196	236	296	7.92
585	3.0C	720	538	17:17: 1	-63:23: 5	253883	-0: 7	0:12	A0	8.52	8.14	66	8	25	251	236	7.22
586	4.1C	718	542	17:17: 1	-63:23: 5	253883	-0:12	-1:36	A0	8.52	8.14	90	14	29	504	230	7.25
587	4.1C	202	349	17:18: 1	-51:48: 6	244666	-0: 1	-1:25	89	8.70	7.80	55	8	24	213	166	7.60
588	1.0L	398	437	17:18:18	-56:15:26	244669	0: 4	0:30	88	8.27	7.90	142	10	96	314	590	7.17
589	3.0L	398	435	17:18:18	-56:15:26	244669	0: 1	-0: 4	88	8.27	7.90	303	25	218	1042	920	6.68
590	3.0C	402	429	17:18:18	-56:15:26	244669	0: 8	-0:52	88	8.27	7.90	107	25	28	984	505	6.39
591	4.1C	432	432	17:18:18	-56:15:26	244669	-0: 4	-0:37	88	8.27	7.90	127	33	35	1432	485	6.43
592	4.1C	700	543	17:18:19	-63: 2:49	253893	-0: 6	-1:11	89	8.88	8.56	56	6	28	141 L	140	7.79
593	3.0L	638	523	17:18:31	-61:40:53	253894	0: 1	-0:35	89	8.19	7.76	233	15	188	429 L	415	7.55
594	3.0C	642	517	17:18:31	-61:40:53	253894	-0: 4	-0:56	89	8.19	7.76	60	9	20	260 L	245	7.18
595	4.1C	639	520	17:18:31	-61:40:53	253894	-0:10	0: 3	89	8.19	7.76	78	13	25	449 L	216	7.32
596	3.0L	105	310	17:18:32	-49:42:50	227872	-0:10	-0:49	88	8.00	7.40	51	11	190	781	139	7.85
597	4.1C	276	389	17:18:33	-53:31:17	244677	0: 1	-0:16	89	9.20	8.88	221	11	190	781	139	7.85
598	3.0C	279	383	17:18:33	-53:31:17	244677	0: 4	1: 5	89	9.20	8.88	47	5	20	140	190	7.46
599	4.1C	278	386	17:18:33	-53:31:17	244677	0: 0	-0:17	89	9.20	8.88	60	8	25	219	169	7.58
600	3.0L	920	638	17:18:34	-67:55:47	NO*	0: 7	-0: 6				197	5	174	110	170	8.53

NORMA, R.A. 17:24 DEC. -59:04 (4 FRAMES)

OBJECT NO.	EXP. FILTER	X	Y	R.A.	DEC.	SAO NO.	Δ R.A.	Δ DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	BO	DENSITY VOLUME	CORR. V/E	UV MAG.
601	4.1C	921	636	17:18:34	-67:55:47	NO*	-0:5	0:5	88	5.86	.00	56	14	24	368	209	7.35
602	1.0C	816	597	17:18:58	-65:35:19	253899	0:3	-1:1	88	6.86	.00	171	37	80	1681	2280	5.69
603	3.0C	815	596	17:18:58	-65:35:19	253899	0:5	-0:53	88	6.86	.00	355	58	184	4005	3650	5.18
604	3.0C	819	590	17:18:58	-65:35:19	253899	-0:3	-1:12	83	6.86	.00	209	45	21	3183	1300	5.36
605	4.1C	816	594	17:18:58	-65:35:19	253899	-0:3	-0:42	88	6.86	.00	260	57	25	4388	1400	5.28
606	1.0C	887	547	17:18:59	-62:47:44	253900	0:13	-1:50	89	8.25	7.87	403	95	88	8122	17800	3.45
607	3.0C	686	546	17:18:59	-62:47:44	253900	0:18	-1:41	89	8.25	7.87	457	182	195	15490	22000	3.22
608	3.0C	690	540	17:18:59	-62:47:44	253900	0:11	-2:2	89	8.25	7.87	406	136	23	13606	7400	3.46
609	4.1C	688	544	17:18:59	-62:47:44	253900	0:11	-2:42	89	8.25	7.87	420	173	28	17498	7400	3.46
610	3.0C	460	463	17:19:7	-57:41:34	NO	-0:6	-0:31	83	5.88	.00	219	4	190	103	172	8.51
611	1.0C	887	547	17:19:18	-62:49:3	253903	-0:2	-0:22	83	5.88	.00	403	95	88	8122	17800	3.45
612	3.0C	686	546	17:19:18	-62:49:3	253903	-0:2	-0:43	83	5.88	.00	457	182	195	15490	22000	3.22
613	3.0C	690	540	17:19:18	-62:49:3	253903	-0:8	-1:23	83	5.88	.00	406	136	23	13606	7400	3.46
614	4.1C	688	544	17:19:18	-62:49:3	253903	0:0	-1:4	88	6.78	.00	420	173	28	17498	7400	3.46
615	1.0C	501	481	17:19:22	-58:37:7	244693	-0:2	-0:28	88	6.78	.00	230	25	79	1606	2100	5.78
616	3.0C	504	479	17:19:22	-58:37:7	244693	-0:1	0:21	88	6.78	.00	378	46	184	2780	2200	5.73
617	3.0C	502	477	17:19:22	-58:37:7	244693	-0:1	0:21	88	6.78	.00	205	40	22	2645	1100	5.54
618	4.1C	419	451	17:19:29	-56:47:9	244696	-0:2	-0:18	89	8.73	8.25	246	25	197	940	1785	6.86
619	3.0C	422	448	17:19:29	-56:47:9	244696	-0:3	0:22	89	8.73	8.25	63	4	33	106	136	7.80
620	4.1C	420	445	17:19:29	-56:47:9	244696	-0:4	-0:31	88	5.96	.00	206	29	77	1712	2240	5.71
621	3.0C	589	515	17:19:47	-60:37:39	253908	-0:3	-1:7	88	5.96	.00	387	43	180	3050	2300	5.69
622	3.0C	589	513	17:19:47	-60:37:39	253908	-0:3	-0:18	88	5.96	.00	216	43	22	2988	1220	5.43
623	3.0C	592	507	17:19:47	-60:37:39	253908	-0:3	-0:58	88	5.96	.00	254	52	26	3868	1200	5.45
624	4.1C	590	511	17:19:47	-60:37:39	253908	-0:2	-1:20	A0	7.27	7.00	209	4	182	103	165	8.56
625	4.1C	460	467	17:20:9	-57:42:55	NO	-0:2	-0:58	A0	7.27	7.00	51	4	21	109	179	7.52
626	3.0C	523	494	17:20:21	-59:10:5	244705	-0:8	-0:46	A0	7.27	7.00	67	9	24	276	180	7.51
627	3.0C	526	488	17:20:21	-59:10:5	244705	-0:2	0:13	89	8.50	8.10	228	23	181	720	590	7.17
628	4.1C	524	491	17:20:21	-59:10:5	244705	-0:1	-0:23	89	8.50	8.10	66	18	21	569	352	6.78
629	4.1C	418	455	17:20:33	-56:47:24	NO	0:9	-1:22	81	3.51	.00	470	383	90	46282	1134000	1.25
630	3.0C	173	363	17:20:40	-51:22:37	244716	0:14	-2:25	81	3.51	.00	507	629	206	74674	95000	1.63
631	3.0C	177	357	17:20:40	-51:22:37	244716	0:7	-1:11	81	3.51	.00	482	473	29	67337	41000	1.59
632	3.0C	175	360	17:20:40	-51:22:37	244716	0:7	-0:16	81	3.51	.00	491	563	36	82468	40300	1.61
633	1.0C	396	457	17:21:10	-56:19:58	244726	-0:2	-1:43	89	8.06	.00	208	8	188	177	240	8.15
634	3.0C	396	456	17:21:10	-56:19:58	244726	-0:4	-0:1	89	8.06	.00	50	4	25	91	117	7.98
635	3.0C	399	449	17:21:10	-56:19:58	244726	-0:4	0:1	89	8.06	.00	228	4	206	85	161	8.59
636	4.1C	396	452	17:21:10	-56:19:58	244726	-0:4	0:1	89	8.06	.00	55	8	30	177	150	7.71
637	3.0C	396	452	17:21:50	-63:46:17	253920	-0:2	0:1	A0	8.00	7.90	54	5	30	111	130	7.97
638	3.0C	725	576	17:21:50	-63:46:17	253920	-0:12	0:33	88	6.95	.00	151	57	78	2288	3382	5.26
639	4.1C	726	574	17:21:58	-55:53:1	NO	-0:19	0:19	88	6.95	.00	345	97	186	6190	7700	4.37
640	3.0C	373	449	17:21:58	-55:53:1	NO	-0:10	-0:27	88	6.95	.00	170	86	26	5230	4	4.22
641	4.1C	374	452	17:21:58	-55:53:1	NO	-0:5	0:25	88	6.95	.00	218	104	31	7444	2570	4.53
642	1.0C	131	353	17:22:5	-50:30:57	244733	-0:6	-0:20	89	8.00	7.90	96	0	78	350	643	7.07
643	3.0C	91	343	17:22:7	-49:41:28	227944	-0:13	-0:28	89	8.00	7.90	223	22	188	594	525	7.30
644	3.0C	91	340	17:22:7	-49:41:28	227944	-0:16	0:46	89	8.00	7.90	67	20	28	581	367	6.74
645	3.0C	95	334	17:22:7	-49:41:28	227944	-0:14	0:28	89	8.00	7.90	88	40	30	1317	470	6.47
646	4.1C	92	337	17:22:7	-49:41:28	227944	-0:14	0:28	89	8.00	7.90	88	40	30	1317	470	6.47
647	1.0C	97	351	17:22:43	-49:50:59	227958	-0:14	0:28	89	8.00	7.90	88	40	30	1317	470	6.47
648	3.0C	97	348	17:22:43	-49:50:59	227958	-0:14	0:28	89	8.00	7.90	88	40	30	1317	470	6.47
649	3.0C	100	341	17:22:43	-49:50:59	227958	-0:14	0:28	89	8.00	7.90	88	40	30	1317	470	6.47
650	4.1C	98	344	17:22:43	-49:50:59	227958	-0:14	0:28	89	8.00	7.90	88	40	30	1317	470	6.47

PAGE, CARRUTHERS, AND HECKATHORN

OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAO NO.	Δ R.A.	Δ DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	BG	DENSITY VOLUME	CORR. V/E	UV MAG.
651	1.0L	192	393	17:22:58	-51:54:22	244749	0: 3	-1:47	88	6.46	.00	164	31	77	1419	2267	5.70
652	3.0L	192	390	17:22:58	-51:54:22	244749	-0: 5	-2: 0	88	6.46	.00	355	53	179	3703	3200	5.33
653	3.0C	195	384	17:22:58	-51:54:22	244749	0: 9	-0:28	88	6.46	.00	204	50	22	3516	1470	5.22
654	4.1C	193	387	17:22:58	-51:54:22	244749	0:10	-0:46	88	6.46	.00	259	56	27	4708	1500	5.20
655	1.0L	582	534	17:23: 8	-50:38:52							109	6	79	1497	465	7.43
656	3.0L	130	368	17:23:18	-50:35:17	244755	-0: 3	-1:59	89	6.06	.00	205	6	181	135 L	194	8.38
657	3.0C	133	361	17:23:18	-50:35:17	244755	0: 4	-0: 1	89	6.06	.00	50	8	24	183 L	216	7.32
658	4.1C	131	364	17:23:18	-50:35:17	244755	0: 3	-1:29	89	6.06	.00	67	17	29	474 L	230	7.25
659	1.0L	684	571	17:23:24	-52:59:40	253928/	-0: 3	3:44	89	6.38	.00	171	20	85	10230		
660	1.0L	688	572	17:23:24	-52:59:40	253928/	-0: 6	-1:28	89	6.38	.00	219	27	85	17290H		
661	3.0L	687	571	17:23:24	-52:59:40	253928/	-0: 1	-1:21	89	6.38	.00	392	43	193	5896	5220	5.15
662	3.0C	691	565	17:23:24	-52:59:40	253928/	-0: 8	-1:45	89	6.38	.00	213	44	23	3532	1440	4.79
663	4.1C	688	569	17:23:24	-52:59:40	253928	-0: 4	-1:18	89	6.38	.00	262	58	26	5431	1750	5.25
664	1.0L	684	571	17:23:30	-52:54:13	253931/	-0: 9	-1:43	89	7.75	7.30	171	20	85	10230H		
665	1.0L	688	572	17:23:30	-52:54:13	253931/	-0:12	-6:55	89	7.75	7.30	219	27	85	17290H		
666	3.0L	687	571	17:23:30	-52:54:13	253931/	0: 5	-4: 6	89	7.75	7.30	335	29	193	5896 H	5220	5.15
667	3.0C	687	563	17:23:30	-52:54:13	253931/	-0:20	-1:37	89	7.75	7.30	131	26	22	1446 H	665	4.79
668	4.1C	684	568	17:23:30	-52:54:13	253931	-0: 3	-1:43	89	7.75	7.30	187	40	26	2717	815	6.09
669	3.0L	703	581	17:24:13	-53:22:59	253935	-0: 6	-1:12	89	8.28	7.77	249	17	192	579	520	5.87
670	3.0C	707	576	17:24:13	-53:22:59	253935	-0: 2	-2: 2	89	8.28	7.77	76	13	23	443	302	7.31
671	4.1C	704	580	17:24:13	-53:22:59	253935	-0: 1	-1:35	89	8.28	7.77	98	16	26	691	276	6.95
672	3.0L	220	413	17:24:20	-52:35:38	244769	0: 4	-1:58	89	8.18	7.90	204	9	184	201 L	255	8.08
673	4.1C	221	410	17:24:20	-52:35:38	244769	0:11	-0:58	89	8.18	7.90	49	5	25	108 L	130	7.87
674	1.0L	859	649	17:25:25	-56:51:17	N0*	-0: 5	0:20	89			148	42	75	1754	3100	5.36
675	3.0L	858	649	17:25:25	-56:51:17	N0*	0: 9	0: 1				315	70	174	4457	4250	5.02
676	3.0C	862	643	17:25:25	-56:51:17	N0*	-0: 1	-0:23				181	56	21	3635	1570	5.15
677	4.1C	859	647	17:25:25	-56:51:17	N0*	-0: 2	0: 2				234	67	25	4680	1540	5.17
678	1.0L	860	649	17:26: 0	-57: 1	N6362?	-0:44	9: 7	GL08			152	9	75	579	579	7.19
679	3.0L	858	649	17:26: 0	-57: 1	N6362?	-0:27	9:36	GL08			490	9	193	2329	776	6.87
680	4.1C	859	647	17:26: 0	-57: 1	N6362?	-0:37	9:58	GL08			296	9	49?	1683	411	6.61
681	1.0L	287	457	17:26:20	-54:12: 5	244795	0:14	0:18	85	7.85	7.50	114	9	79	251 L	575	7.20
682	3.0L	287	455	17:26:20	-54:12: 5	244795	0:12	-0:23	85	7.85	7.50	268	19	187	832 L	660	7.05
683	3.0C	291	449	17:26:20	-54:12: 5	244795	0:11	-0:49	85	7.85	7.50	89	19	21	702 L	408	6.62
684	4.1C	288	452	17:26:20	-54:12: 5	244795	0:13	0: 1	85	7.85	7.50	110	25	24	1109 L	406	6.63
685	4.1C	185	412	17:26:21	-51:55:19	244796	0:10	-0:39	A0	8.20	7.90	48	4	24	92 L	120	7.96
686	1.0L	465	523	17:26:31	-58: 5:56	244799?	0:42	-6: 1	A2	10.00	9.87	117	6	78	184 H	500	7.35
687	1.0L	576	554	17:26:34	-50:38:40	253945	-0: 2	-0:59	88	3.79	.00	400	121	81	9148	20600	3.29
688	3.0L	575	552	17:26:34	-50:38:40	253945	-0: 6	-0:28	88	3.79	.00	451	208	181	18139 L	26000	3.04
689	3.0C	579	546	17:26:34	-50:38:40	253945	-0:10	-0:55	88	3.79	.00	421	193	21	19077 L	10700	3.06
690	4.1C	577	550	17:26:34	-50:38:40	253945	-0: 8	-1:41	88	3.79	.00	435	234	25	24237 L	10500	3.08
691	3.0L	309	468	17:26:59	-54:44:16	244805	0:17	0:23	A0	9.20	8.95	214	4	191	87?	156	8.62
692	1.0L	251	450	17:27: 3	-53:26:28	244806/	0:18	-1:25	83	8.24	7.90	105	4	79	97 L	395	7.61
693	3.0L	251	447	17:27: 3	-53:26:28	244806/	0:11	-0:32	83	8.24	7.90	247	21	180	784 L	625	7.11
694	3.0C	255	441	17:27: 3	-53:26:28	244806/	0:12	-0:37	83	8.24	7.90	73	14	21	489 L	310	6.92
695	4.1C	252	444	17:27: 3	-53:26:28	244806/	0:14	-0: 9	83	8.24	7.90	94	21	25	812 L	324	6.87
696	1.0L	407	504	17:27: 7	-56:53: 0	244808	0: 4	-1:32	88	6.29	.00	223	26	84	1611	1970	5.85
697	3.0L	406	501	17:27: 7	-56:53: 0	244808	-0: 5	-0:38	88	6.29	.00	374	46	130	2721	2130	5.77
698	3.0C	410	496	17:27: 7	-56:53: 0	244808	0:13	-0:42	88	6.29	.00	221	43	90	3236	1310	5.35
699	4.1C	408	499	17:27: 7	-56:53: 0	244808	0: 7	-2:15	88	6.29	.00	265	57	28	4323	1380	5.29
700	1.0L	251	450	17:27:35	-53:23:57	244814:	-0:14	-3:55	A0	10.00	9.78	105	4	79	97 H	395	7.61

NRL REPORT 8487

(4 FRAMES)

NORMA, R.A. 17:24 DEC. -59:04

OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAO NO.	Δ R.A.	Δ DEC.	SPEC. TYPE	V MAG	P MAG	PEAK DEN.	NO. OF POINTS	BG	DENSITY VOLUME	CORR. V/E	UV MAG.
701	3.0L	251	447	17:27:35	-53:23:57	244814	-0:21	-3:28	A0	10.00	9.78	247	21	180	784 H	625	7.11
702	3.0C	255	441	17:27:35	-53:23:57	244814	-0:20	-3:28	A0	10.00	9.78	73	14	21	489 H	310	6.92
703	4.1C	252	444	17:27:35	-53:23:57	244814	-0:18	-2:39	A0	10.00	9.78	94	21	25	812 H	324	6.87
704	1.0L	82	391	17:27:58	-49:50:19	228069	-0:10	-1:16	B3	2.97	.00	493	486	82	68548 L185000	.90	1.20
705	3.0L	81	388	17:27:58	-49:50:19	228069	-0:7	-0:49	B3	2.97	.00	510	776	183	102322 L140000	1.22	1.22
706	3.0C	84	382	17:27:58	-49:50:19	228069	-0:3	-0:3	B3	2.97	.00	493	581	30	88957 L 57500	1.25	8.01
707	4.1C	82	384	17:27:58	-49:50:19	228069	-0:8	-0:3	B3	2.97	.00	503	661	34	108535 L 56000	272	7.15
708	3.0L	314	481	17:28:42	-54:54:42	244829	-0:5	-0:38	B8	6.95	.00	121	9	78	282 L 600	600	7.05
709	1.0L	477	537	17:28:49	-58:31:20	244829	-0:7	-0:9	B8	6.95	.00	269	18	182	830 L 650	435	6.55
710	3.0C	476	535	17:28:49	-58:31:20	244829	-0:0	-1:2	B8	6.95	.00	98	20	24	796 L	435	6.55
711	3.0C	480	529	17:28:49	-58:31:20	244829	-0:2	-0:13	B8	6.95	.00	122	23	26	1118 L	397	6.65
712	4.1C	477	533	17:28:49	-58:31:20	244829	0:4	-0:23	B8	6.95	.00	205	7	183	140 L 204	204	8.33
713	3.0L	124	420	17:29:44	-50:51:42	244843	0:6	-0:48	B8	8.50	8.60	51	6	34	120 L 180	7.51	7.51
714	3.0C	128	414	17:29:44	-50:51:42	244843	0:7	-1:14	B8	8.50	8.60	51	6	34	120 L 180	7.51	7.51
715	4.1C	126	417	17:29:44	-50:51:42	244843	0:7	-1:14	B8	8.50	8.60	51	6	34	120 L 180	7.51	7.51
716	1.0L	117	421	17:29:51	-50:41:47	244846	0:7	-0:57	B8	8.20	7.90	100	10	76	91 L	708	6.97
717	3.0L	116	418	17:29:51	-50:41:47	244846	0:2	-0:8	B8	8.20	7.90	227	26	174	929	690	7.00
718	3.0C	120	412	17:29:51	-50:41:47	244846	0:4	-0:33	B8	8.20	7.90	79	26	24	943	510	6.38
719	4.1C	118	415	17:29:51	-50:41:47	244846	0:5	-0:59	B8	8.20	7.90	105	31	302	1280	450	6.52
720	3.0C	317	480	17:29:54	-54:47:51	244850	-0:29	-8:7	A0	9.03	8.66	76	7	23	240	233	7.23
721	4.1C	314	484	17:29:54	-54:47:51	244850	-0:20	-7:44	A0	9.03	8.66	86	7	27	277	172	7.56
722	4.1C	185	447	17:30:13	-52:10:29	244853	0:3	-1:31	B9	9.06	8.65	195	8	177	172	221	8.24
723	4.1C	186	445	17:30:13	-52:10:29	244853	0:20	-1:7	B9	9.06	8.65	49	3	26	64 L	94	8.22
724	3.0L	387	518	17:30:15	-56:37:12	244854	0:8	-0:30	A0	9.13	8.79	206	4	189	84	153	8.64
725	1.0L	531	569	17:31:7	-59:48:48	244866	-0:3	-2:11	A0	6.43	.00	246	30	78	2012 H	2800	5.47
726	3.0C	530	567	17:31:7	-59:48:48	244866	-0:6	-1:43	A0	6.43	.00	395	52	177	3663 H	3100	5.36
727	3.0C	534	561	17:31:7	-59:48:48	244866	-0:10	-2:13	A0	6.43	.00	230	43	23	3277 H	1330	5.33
728	4.1C	531	565	17:31:7	-59:48:48	244866	-0:4	-1:51	A0	6.43	.00	280	55	26	4429 H	1390	5.28
729	3.0L	808	661	17:31:14	-65:57:55	253970	0:10	-0:47	A0	7.53	.00	228	20	180	533	525	7.30
730	3.0C	812	656	17:31:14	-65:57:55	253970	0:13	-1:39	A0	7.53	.00	85	20	22	774	428	6.57
731	4.1C	809	660	17:31:14	-65:57:55	253970	0:13	-1:18	A0	7.53	.00	103	27	24	1179	430	6.56
732	1.0L	236	477	17:31:17	-53:19:12	244870	0:14	-0:44	A0	6.27	.00	123	11	78	343	655	7.05
733	3.0L	235	475	17:31:17	-53:19:12	244870	0:15	-1:12	A0	6.27	.00	279	24	181	1200	880	6.73
734	3.0C	239	469	17:31:17	-53:19:12	244870	0:17	-1:12	A0	6.27	.00	115	25	25	1198	590	6.22
735	4.1C	487	558	17:31:46	-58:52:59	244874	-0:5	-0:48	B9	8.28	7.86	222	9	182	262 L	288	7.95
736	3.0L	487	558	17:31:46	-58:52:59	244874	0:4	-0:30	B9	8.28	7.86	57	5	22	147 L	193	7.44
737	3.0C	490	553	17:31:46	-58:52:59	244874	0:4	-0:30	B9	8.28	7.86	75	10	28	323 L	188	7.47
738	4.1C	488	556	17:31:46	-58:52:59	244874	-0:1	-0:56	B9	8.28	7.86	233	10	183	348	355	7.72
739	3.0L	599	594	17:32:1	-61:22:57	253976	-0:7	-1:18	B9	9.05	8.73	58	7	20	209	224	7.28
740	3.0C	603	588	17:32:1	-61:22:57	253976	-0:11	-1:4	B9	9.05	8.73	69	10	23	320	188	7.47
741	4.1C	600	592	17:32:1	-61:22:57	253976	-0:6	-1:27	B9	9.05	8.73	70	6	23	187	208	7.36
742	3.0C	949	710	17:32:4	-68:56:0	NO	0:1	-0:9				105	9	25	388	196E	7.42
743	4.1C	946	715	17:32:4	-68:56:0	NO	-0:2	0:10				58	7	20	209 H	224	7.29
744	3.0C	603	588	17:32:25	-61:22:15	253980	-0:35	-2:30	A2	10.20	9.92	69	10	23	320 H	188	7.47
745	4.1C	600	592	17:32:25	-61:22:15	253980	-0:31	-2:8	A2	10.20	9.92	201	8	181	171	221	8.24
746	3.0L	730	655	17:35:3	-64:25:9	NO	-0:2	0:3				51	4	26	91	117	7.98
747	4.1C	731	653	17:35:3	-64:25:9	NO	-0:2	0:3	B9	8.73	8.39	238	10	186	364	363	7.70
748	3.0L	387	555	17:35:35	-56:50:54	244922	-0:2	-0:18	B9	8.73	8.39	54	6	22	170	200	7.40
749	3.0C	391	550	17:35:35	-56:50:54	244922	0:5	-0:13	B9	8.73	8.39	75	14	26	440	206	7.37
750	4.1C	388	553	17:35:35	-56:50:54	244922	0:5	-0:32	B9	8.73	8.39						

## PAGE, CARRUTHERS, AND HECKATHORN

NORMA, R.A. 17:24 DEC. -59:04 (4 FRAMES)																	
OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAO NO.	$\Delta$ R.A.	$\Delta$ DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	BC	DENSITY VOLUME	CORR. V/E	UV MAG.
751	4.1C	537	600	17:36:15	-60:9:12	253997	-0:4	-1:44	89	8.88	8.53	53	4	23	102 L	125	7.91
752	4.1C	764	685	17:38:43	-65:16:55							60	6	25	181?	151	7.71
753	1.0L	388	584	17:39:16	-56:59:58	244967	0:5	-2:17	89	6.88	.00	155	17	79	787	1060	6.53
754	3.0L	387	581	17:39:16	-56:59:58	244967	-0:5	-1:34	89	6.88	.00	341	36	182	2216	1770	5.97
755	3.0C	391	575	17:39:16	-56:59:58	244967	-0:4	-0:56	89	6.88	.00	149	34	23	1874	840	5.83
756	4.1C	388	579	17:39:16	-56:59:58	244967	0:2	-1:53	89	6.88	.00	192	39	26	2566	775	5.92
757	1.0L	744	684	17:39:23	-64:51:18	NO*	-0:4	-0:16				102	4	77	95	420	7.54
758	3.0L	743	683	17:39:23	-64:51:18	NO*	0:0	-0:17				240	22	176	885	670	7.03
759	3.0C	746	678	17:39:23	-64:51:18	NO*	0:7	-0:2				81	15	23	565	340	6.82
760	4.1C	743	681	17:39:23	-64:51:18	NO*	-0:3	0:36				101	22	25	942	355	6.77
761	1.0L	181	528	17:39:59	-52:35:27	244976	0:23	-1:41	88	7.90	7.50	101	6	73	148 L	475	7.41
762	3.0L	180	525	17:39:59	-52:35:27	244976	0:17	-1:1	88	7.90	7.50	233	24	170	880	640	7.08
763	3.0C	184	519	17:39:59	-52:35:27	244976	0:20	-0:21	88	7.90	7.50	82	22	22	791	445	6.53
764	4.1C	182	522	17:39:59	-52:35:27	244976	0:18	-2:10	88	7.90	7.50	106	26	30	1102	398	6.65
765	3.0L	250	554	17:41:10	-54:7:17	NO*	-0:1	0:11				220	14	176	419	375	7.66
766	3.0C	254	548	17:41:10	-54:7:17	NO*	-0:1	-0:22				60	8	22	236	238	7.21
767	4.1C	251	551	17:41:10	-54:7:17	NO*	0:1	0:12				75	14	26	460	223	7.28
768	1.0L	607	660	17:41:55	-61:57:38	NO*	-0:2	0:1				125	9	77	295	610	7.13
769	3.0L	606	659	17:41:55	-61:57:38	NO*	0:3	-0:1				289	13	183	686	545	7.26
770	3.0L	325	586	17:42:17	-55:47:48	245011	0:8	-0:24	A0	8.25	8.00	204	9	182	211	260	8.06
771	3.0C	608	658	17:42:52	-61:57:26	NO*	-0:2	-0:7				135	14	22	839	422	6.59
772	4.1C	605	662	17:42:52	-61:57:26	NO*	0:3	0:7				162	17	25	994	348	6.80
773	1.0L	344	592	17:43:0	-56:4:52	245020?	-0:47	-6:8	A0	10.00	9.93	100	2	79	42 H	214	8.28
774	3.0L	343	591	17:43:0	-56:4:52	245020?	-0:38	-6:35	A0	10.00	9.93	216	11	183	2797H	298	7.91
775	3.0C	345	590	17:43:0	-56:4:52	245020?	0:10	-6:27	A0	10.00	9.93	60	21	23	549 H	356	6.77
776	4.1C	342	595	17:43:0	-56:4:52	245020?	0:27	-6:20	A0	10.00	9.93	67	30	27	827 H	348	6.80
777	1.0L	801	725	17:43:15	-66:12:54	NO*	0:7	0:32				101	7	75	167	909	6.70
778	3.0L	801	723	17:43:15	-66:12:54	NO*	-0:6	-0:24				235	31	175	1147	840	6.78
779	3.0C	804	718	17:43:15	-66:12:54	NO*	0:0	-0:10				89	25	22	999	525	6.35
780	4.1C	801	722	17:43:15	-66:12:54	NO*	0:0	0:4				119	35	27	1603	550	6.30
781	3.0L	771	715	17:43:25	-65:34:39	NO*	0:0	-0:20				225	19	176	629	510	7.33
782	3.0C	774	709	17:43:25	-65:34:39	NO*	0:6	-0:6				81	21	22	749	430	6.56
783	4.1C	771	713	17:43:25	-65:34:39	NO*	-0:5	0:27				99	24	26	999	373	6.72
784	4.1C	487	640	17:43:36	-59:25:49	245028?	0:39	1:30	A0	9.90	9.52	83	16	23	578 H	256	7.13
785	3.0L	271	582	17:43:52	-54:41:10	245031	0:13	-0:28	88	8.84	8.46	221	11	174	348	325	7.82
786	3.0C	274	576	17:43:52	-54:41:10	245031	0:15	0:9	88	8.84	8.46	61	8	22	238	237	7.21
787	4.1C	272	579	17:43:52	-54:41:10	245031	0:13	-0:32	88	8.84	8.46	81	17	27	559	250	7.16
788	3.0L	486	643	17:44:31	-59:22:11	245047	-0:9	-2:3	89	8.40	8.10	232	14	181	475	420	7.34
789	3.0C	489	637	17:44:31	-59:22:11	245047	-0:9	-1:29	89	8.40	8.10	61	10	20	306	259	7.12
790	4.1C	487	640	17:44:31	-59:22:11	245047	-0:15	-2:9	89	8.40	8.10	83	16	23	578	256	7.13
791	1.0L	592	676	17:45:15	-61:41:57	254048	-0:6	-2:24	89	6.62	.00	172	25	79	1141 H	1470	6.17
792	3.0L	591	674	17:45:15	-61:41:57	254048	-0:10	-2:8	89	6.62	.00	353	37	183	2590	1950	5.87
793	3.0C	595	668	17:45:15	-61:41:57	254048	-0:15	-2:48	89	6.62	.00	168	36	22	2161	985	5.66
794	4.1C	592	672	17:45:15	-61:41:57	254048	-0:11	-2:35	89	6.62	.00	196	41	25	2807	830	5.85
795	1.0L	215	588	17:46:23	-53:35:53	245065	0:17	0:18	83	5.90	.00	402	90	74	8789	17900	3.45
796	3.0L	214	585	17:46:23	-53:35:53	245065	0:18	0:32	83	5.90	.00	459	180	169	16133	22500	3.20
797	3.0C	218	579	17:46:23	-53:35:53	245065	0:19	-0:4	83	5.90	.00	419	127	26	13681	7500	3.45
798	4.1C	215	582	17:46:23	-53:35:53	245065	0:20	0:24	83	5.90	.00	432	155	35	17202	7500	3.45
799	4.1C	183	578	17:47:7	-52:57:10	245071?	0:20	0:1	89	9.42	9.02	55	7	29	157	144	7.76
800	1.0L	190	587	17:47:8	-53:7:1	245072	0:24	0:23	A0	6.40	.00	108	10	70	296	630	7.10



NRL REPORT 8487

NORMA, R.A. 17:24 DEC. -59:04 (4 FRAMES)																	
OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAO NO.	Δ R.A.	Δ DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	BG	DENSITY VOLUME	CORR. V/E	UV MAG.
801	3.0L	189	583	17:47:8	-53:7:1	245072	0:17	0:57	A0	6.40	.00	243	21	167	934	660	7.05
802	3.0C	193	578	17:47:8	-53:7:1	245072	0:26	0:1	A0	6.40	.00	113	28	25	1279	615	6.17
803	4.1C	191	581	17:47:8	-53:7:1	245072	0:26	-0:45	A0	6.40	.00	145	33	33	1824	565	6.27
804	1.0L	427	649	17:47:14	-58:12:2							111	9	79	248?	575	7.20
805	4.1C	183	578	17:47:14	-52:55:9	245074:	0:12	-2:1	A0	10.20	10.07	55	5	29	157	144	7.76
806	4.1C	721	723	17:47:48	-64:38:18							55	5	26	123?	135	7.83
807	3.0L	418	653	17:48:34	-58:1:58	245085	-0:17	-1:38	B9	9.94	9.61	207	4	181	94	156	8.62
808	3.0L	155	586	17:48:40	-52:28:8	245087	0:22	-0:41	B9	8.17	7.80	178	10	151	235 L	220	8.25
809	3.0C	159	579	17:48:40	-52:28:8	245087	0:16	-0:58	B9	8.17	7.80	46	4	22	91 L	163	7.62
810	4.1C	156	583	17:48:40	-52:28:8	245087	0:26	-0:53	B9	8.17	7.80	61	11	27	298 L	187	7.47
811	4.1C	689	720	17:48:49	-63:56:55	245064	-0:2	-1:39	A0	7.81	7.53	57	7	25	179 L	153	7.69
812	1.0L	456	674	17:50:2	-58:54:6	245103	-0:14	-0:50	B9	7.61	7.30	114	10	76	287	620	7.12
813	3.0L	455	671	17:50:2	-58:54:6	245103	-0:26	-0:18	B9	7.61	7.30	265	20	180	857	665	7.04
814	3.0C	459	666	17:50:2	-58:54:6	245103	-0:9	-1:37	B9	7.61	7.30	92	20	22	769	435	6.55
815	4.1C	456	669	17:50:2	-58:54:6	245103	-0:21	-0:51	B9	7.61	7.30	115	24	26	1066	395	6.66
816	3.0L	314	642	17:50:31	-55:53:21	245108	0:2	0:1	B9	7.48	.00	222	12	174	386 L	347	7.75
817	3.0C	318	636	17:50:31	-55:53:21	245108	0:1	-0:39	B9	7.48	.00	63	10	21	308 L	254	7.14
818	4.1C	315	639	17:50:31	-55:53:21	245108	0:1	-0:14	B9	7.48	.00	81	16	27	543 L	242	7.19
819	3.0L	384	667	17:51:50	-57:25:28	245121	-0:17	-0:35	B8	8.78	8.42	225	12	181	371	358	7.71
820	3.0C	387	662	17:51:50	-57:25:28	245121	-0:7	-0:22	B8	8.78	8.42	58	9	23	238 L	240	7.20
821	4.1C	384	665	17:51:50	-57:25:28	245121	-0:9	0:2	B8	8.78	8.42	72	13	27	386 L	206	7.37
822	1.0L	240	639	17:52:17	-54:22:15	245127	0:18	1:13	B9	7.68	7.20	108	10	72	278	615	7.12
823	3.0L	239	636	17:52:17	-54:22:15	245127	0:10	1:41	B9	7.68	7.20	251	24	167	1096	755	6.90
824	3.0C	242	630	17:52:17	-54:22:15	245127	0:12	2:14	B9	7.68	7.20	93	24	22	928	505	6.39
825	4.1C	240	633	17:52:17	-54:22:15	245127	0:11	1:23	B9	7.68	7.20	121	27	30	1260	435	6.55
826	1.0L	357	674	17:53:26	-56:53:26	245133	-0:15	0:15	B8	6.54	.00	260	39	78	2675 H	3700	5.17
827	3.0L	356	672	17:53:26	-56:53:26	245133	-0:16	0:26	B8	6.54	.00	415	60	181	4592	4350	4.99
828	3.0C	360	666	17:53:26	-56:53:26	245133	-0:18	-0:35	B8	6.54	.00	280	63	26	5166	2340	4.72
829	4.1C	357	669	17:53:26	-56:53:26	245133	-0:18	0:6	B8	6.54	.00	326	73	30	6740	2340	4.72
830	3.0L	650	766	17:58:2	-63:25:24	NO						200	15	175	344	330	7.80
831	3.0L	410	717	17:58:13	-58:13:2	245187	-0:15	0:9	B9	9.27	8.94	204	4	177	96?	156	8.62
832	1.0L	730	790	17:58:25	-65:5:44	245121	0:23	-1:60	B8	8.28	.00	99	6	74	135	470	7.42
833	3.0L	728	789	17:58:25	-65:5:44	245121	0:29	-0:58	B8	8.28	.00	230	25	170	950	685	7.01
834	3.0C	732	783	17:58:25	-65:5:44	245121	0:22	-1:48	B8	8.28	.00	80	24	23	837	472	6.46
835	4.1C	729	787	17:58:25	-65:5:44	245121	0:23	-1:45	B8	8.28	.00	102	30	27	1291	456	6.50
836	4.1C	311	698	17:58:48	-56:3:55	245186/	-0:1	-2:22	A0	8.29	8.05	52	4	28	90 L	115	8.00
837	4.1C	311	698	17:58:57	-56:7:34	245186/	-0:9	1:18	B9	8.83	8.57	52	4	28	90 L	115	8.00
838	3.0L	281	705	18:0:23	-55:34:23	245218	-0:6	3:4	B8	8.43	8.00	215	11	168	369 L	326	7.82
839	3.0C	284	699	18:0:23	-55:34:23	245218	-0:4	3:32	B8	8.43	8.00	60	11	23	318 L	264	7.10
840	4.1C	282	703	18:0:23	-55:34:23	245218	0:2	2:17	B8	8.43	8.00	77	17	28	553 L	246	7.17
841	1.0L	422	747	18:2:6	-58:34:34	245237	-0:27	0:2	B5	7.21	.00	216	31	76	1871 H	2540	5.58
842	3.0L	420	745	18:2:6	-58:34:34	245237	-0:27	1:20	B5	7.21	.00	383	46	180	3330 H	2660	5.53
843	3.0C	424	739	18:2:6	-58:34:34	245237	-0:19	0:15	B5	7.21	.00	219	48	24	3414 H	1420	5.26
844	4.1C	421	742	18:2:6	-58:34:34	245237	-0:22	0:30	B5	7.21	.00	274	57	29	4564 H	1460	5.23
845	4.1C	511	773	18:5:56	-60:27:26	245186?	-2:4	-6:52	A0	10.10	9.90	59	3	28	78	103	8.12
846	3.0L	296	755	18:6:52	-56:7:51	245288/	-0:15	2:44	B9	8.90	8.41	222	19	170	641 H	490	7.37
847	3.0C	300	749	18:6:52	-56:7:51	245288/	-0:14	3:8	B9	8.90	8.41	60	16	26	419	300	6.96
848	4.1C	297	752	18:6:52	-56:7:51	245288/	-0:14	3:16	B9	8.90	8.41	81	16	27	569	254	7.14
849	3.0L	296	755	18:7:2	-56:8:45	245290:	-0:25	3:38	A0	10.10	9.91	222	19	170	641 H	490	7.37
850	3.0C	300	749	18:7:2	-56:8:45	245290:	-0:25	4:2	A0	10.10	9.91	60	16	26	419 H	300	6.96

# PAGE, CARRUTHERS, AND HECKATHORN

NORMA, R.A. 17:24 DEC. -59:04 (4 FRAMES)

OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	S.A.O. NO.	Δ R.A.	Δ DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	B.G.	DENSITY VOLUME	CORR. V/E	UV MAG.
851	4.1C	297	752	18: 7: 2	-56: 8:45	245290:	-0:24	4:10	A0	10.10	9.91	81	16	27	569 H	254	7.14
852	1.0L	539	805	18: 7:49	-61:14:50	254170:	-0:15	-1:45	B5	8.34	7.87	112	9	75	261 L	590	7.17
853	3.0L	537	803	18: 7:49	-61:14:50	254170:	-0:17	-0:32	B5	8.34	7.87	262	26	179	1134	855	6.76
854	3.0C	541	797	18: 7:49	-61:14:50	254170:	-0:19	-0:14	B5	8.34	7.87	97	22	24	871	473	6.46
855	4.1C	538	801	18: 7:49	-61:14:50	254170:	-0:16	-1:31	B5	8.34	7.87	126	28	27	1347	460	6.49
856	3.0L	710	839	18: 8:34	-64:59: 0	NO	0: 2	0:19				191	11	172	232	258	8.07
857	1.0L	801	870	18:10:35	-66:54:13	NO*	0: 5	-0:15				91	5	69	104	1062	6.53
858	3.0L	800	869	18:10:35	-66:54:13	NO*	-0: 2	-0: 1				212	46	164	1404	1306	6.30
859	3.0C	803	863	18:10:35	-66:54:13	NO*	-0: 3	-0: 5				71	35	23	1161	610	6.18
860	4.1C	800	867	18:10:35	-66:54:13	NO*	-0:20	0:58	A0	7.70	7.30	94	54	27	2062	735	5.98
861	1.0L	454	820	18:12:18	-59:34:49	245361	-0:23	0:54	A0	7.70	7.30	103	6	74	153	475	7.41
862	3.0L	453	818	18:12:18	-59:34:49	245361	-0:23	1:12	A0	7.70	7.30	248	23	177	929 H	710	6.97
863	3.0C	456	812	18:12:18	-59:34:49	245361	-0:29	0: 2	A0	7.70	7.30	90	22	24	833 H	465	6.48
864	4.1C	454	815	18:12:18	-59:34:49	245361	-0:20	0:13	A0	8.81	8.32	111	27	27	1241 H	436	6.55
865	1.0L	388	814	18:12:51	-58:12: 8	245368	-0:28	2:50	A0	8.81	8.32	97	4	73	92	395	7.61
866	3.0L	386	811	18:12:51	-58:12: 8	245368	-0:19	1:42	A0	8.81	8.32	233	21	171	811 H	615	7.12
867	3.0C	390	806	18:12:51	-58:12: 8	245368	-0:22	1:45	A0	8.81	8.32	73	16	25	507 H	328	6.86
868	4.1C	387	809	18:12:51	-58:12: 8	245368	-0: 9	2: 9	B5	5.54	.00	95	21	29	793 H	316	6.90
869	1.0L	283	798	18:12:54	-56: 2:29	245369	-0:18	2:18	B5	5.54	.00	400	86	75	8778 H	18000	3.44
870	3.0L	282	795	18:12:54	-56: 2:29	245369	-0:16	2:39	B5	5.54	.00	463	145	173	15012 H	19600	3.35
871	3.0C	286	789	18:12:54	-56: 2:29	245369	-0:17	2:40	B5	5.54	.00	415	124	29	14066	7750	3.41
872	4.1C	283	792	18:14:11	-63:52:25	254204	0:17	-1:48	A0	8.59	8.33	440	152	33	18057	7750	3.41
873	4.1C	653	861	18:16:13	-59:51:44	245405	-0:25	0:41	B8*	7.21	.00	52	6	26	141 L	139	7.80
874	1.0L	462	847	18:16:13	-59:51:44	245405	-0:28	0:34	B8*	7.21	.00	290	57	76	4336 H	6700	4.52
875	3.0L	461	845	18:16:13	-59:51:44	245405	-0:29	0:49	B8*	7.21	.00	439	91	179	8880 H	10500	4.03
876	3.0C	464	839	18:16:13	-59:51:44	245405	-0:33	0:50	B8*	7.21	.00	325	75	27	6743 H	3180	4.38
877	4.1C	461	842	18:16:13	-59:51:44	245405	-0:12	1:42	B9	7.73	.00	367	85	31	8890 H	3110	4.41
878	1.0L	322	830	18:16:31	-56:57:19	245411	-0:12	2:50	B9	7.73	.00	112	17	70	522 H	1145	6.45
879	3.0L	320	827	18:16:31	-56:57:19	245411	-0:10	3: 8	B9	7.73	.00	268	42	168	2034 H	1600	6.08
880	3.0C	324	821	18:16:31	-56:57:19	245411	-0:13	1:52	B9	7.73	.00	108	32	24	1457 H	690	6.05
881	4.1C	321	824	18:17:49	-64: 6:12	245411	-0: 4	0:56	B9	7.56	.00	136	44	28	2232 H	750	5.96
882	4.1C	658	881	18:19:56	-59:38:35	245441	-0: 7	0:46	B9	7.56	.00	51	3	27	68	95	8.20
883	1.0L	446	870	18:19:56	-59:38:35	245441	-0: 7	0:59	B9	7.56	.00	109	15	70	462 H	1017	6.58
884	3.0L	445	868	18:19:56	-59:38:35	245441	-0:12	-0:19	B9	7.56	.00	272	42	171	2030 H	1463	6.18
885	3.0C	449	862	18:19:56	-59:38:35	245441	0:42	-1:24	B8	4.81	.00	111	34	24	1491 H	718	6.01
886	4.1C	446	865	18:19:56	-59:38:35	245441	0:37	-1:41	B8	4.81	.00	144	40	28	2140 H	690	6.05
887	4.1C	247	839	18:26:42	-62:18:46	254273/	0:35	-1:36	B8	4.81	.00	56	5	28	1277	134	7.84
888	1.0L	567	929	18:26:42	-62:18:46	254273/	0:38	-1:53	B8	4.81	.00	472	154	72	14287 H	34000	2.75
889	3.0L	566	927	18:26:42	-62:18:46	254273/	0:33	-0:10	A2	7.76	.00	441	196	178	22974	29000	2.92
890	3.0C	569	921	18:26:51	-62:20: 0	254275:	0:28	-0:27	A2	7.76	.00	472	194	178	20358	11400	2.99
891	4.1C	566	925	18:26:51	-62:20: 0	254275:	0:26	-0:21	A2	7.76	.00	451	196	34	25483	11600	2.97
892	1.0L	567	929	18:26:51	-62:20: 0	254275:	0:29	-0:38	A2	7.76	.00	441	196	34	14287 H	34000	2.75
893	3.0L	566	927	18:26:51	-62:20: 0	254275:	0:29	-0:38	A2	7.76	.00	472	194	178	22974	29000	2.92
894	3.0C	569	921	18:26:51	-62:20: 0	254275:	0:26	-0:21	A2	7.76	.00	451	196	34	20358 H	11400	2.99
895	4.1C	566	925	18:26:51	-62:20: 0	254275:	0:29	-0:38	A2	7.76	.00	441	196	34	25483 H	11600	2.97

NRL REPORT 8487

AQUARIUS, R.A. 22:58 TO 23:16 DEC. -05:06 TO -03:12 (11 FRAMES)

OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAO NO.	A R.A.	A DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	BG	DENSITY VOLUME	CORR. V/E	UV MAG.
1	3.0L	984	553	22:18:46	-6:29:43	146041?	-0:24	5:32	A2	7.46	.00	385	68	348	17027H	3950*	5.10
2	3.0L	976	560	22:18:46	-6:29:43	146041	0:12	-2:49	A2	7.46	.00	389	48	355	11677H	3950*	5.10
3	3.0L	944	489	22:21:30	-5:5:26	146067	0:3	0:21	A0	5.85	.00	175	45	122	1492	2340	5.67
4	3.0L	945	488	22:21:30	-5:5:26	146067	0:6	0:42	A0	5.85	.00	374	71	279	3350	3650	5.18
5	3.0C	897	488	22:21:30	-5:5:26	146067	-0:13	-0:50	A0	5.85	.00	149	66	16	3899	1760	5.03
6	10.0C	954	489	22:21:30	-5:5:26	146067	-0:0	-0:50	A0	5.85	.00	308	129	17	12834	1858	4.97
7	30.0C	963	491	22:21:30	-5:5:26	146067	0:8	-0:42	A0	5.85	.00	387	264	27	36497	2170	4.80
8	3.0L	867	241	22:27:36	-0:7:5	146126	-0:9	5:23	A0	7.80	.00	198	19	165	496	385	7.64
9	3.0C	819	239	22:27:36	-0:7:5	146126	-0:20	5:34	A0	7.80	.00	53	22	14	628	400	6.64
10	10.0C	876	240	22:27:36	-0:7:5	146126	-0:5	5:48	A0	7.80	.00	123	65	19	3312 H	419	6.59
11	30.0C	886	242	22:27:36	-0:7:5	146126	-0:10	5:52	A0	7.80	.00	176	156	26	11252 H	441	6.54
12	30.0C	879	366	22:27:58	-2:31:43	165134	-0:12	-3:27	A0	4.89	.00	58	9	23	237?	23	9.76
13	1.0L	869	791	22:28:0	-10:56:4	165134	-0:12	-4:11	A0	4.89	.00	399	92	261	2746	4480	4.96
14	3.0L	871	791	22:28:0	-10:56:4	165134	-0:12	-6:27	A0	4.89	.00	228	96	16	5885	7700	4.37
15	3.0C	821	790	22:28:0	-10:56:4	165134	-0:17	-4:45	A0	4.89	.00	418	173	17	7748	3650	4.23
16	10.0C	887	793	22:28:0	-10:56:4	165134	-0:11	-3:5	A0	4.89	.00	427	297	28	23002	3657	4.23
17	30.0C	887	793	22:28:0	-10:56:4	165134	-0:20	0:6	A2	9.10	.00	80	5	44	49403	2900	4.48
18	.25L	846	658	22:29:48	-8:32:20	146141?	-0:13	-2:37	A2	9.10	.00	285	11	263	128 H	2050	5.81
19	3.0L	847	665	22:29:48	-8:32:20	146141	-0:10	3:1	BB	4.13	.00	128	51	37	250?	1500	6.15
20	.25L	799	252	22:32:47	-0:22:32	146181	-0:4	2:26	BB	4.13	.00	406	104	72	2388	13200	3.78
21	1.0L	799	258	22:32:47	-0:22:32	146181	-0:9	3:1	BB	4.13	.00	467	161	183	11808 H	26500	3.02
22	3.0L	801	257	22:32:47	-0:22:32	146181	-0:8	3:1	BB	4.13	.00	440	139	18	17321	22000	3.22
23	3.0C	751	256	22:32:47	-0:22:32	146181	0:0	3:6	BB	4.13	.00	477	339	17	17639	10670	3.06
24	10.0C	808	256	22:32:47	-0:22:32	146181	0:0	3:6	BB	4.13	.00	436	588	31	43216	8061	3.37
25	30.0C	818	259	22:32:47	-0:22:32	146181	0:0	3:24	BB	4.13	.00	210	4	185	88258 L	5800	3.73
26	3.0L	720	428	22:39:31	-3:44:7	146252	0:11	-1:20	A0	7.70	.00	307	5	295	106 L	160	8.59
27	3.0C	955	509	22:39:31	-3:44:7	146252	0:5	1:34	A0	7.70	.00	44	5	13	131 L	230	8.20
28	3.0C	670	427	22:39:31	-3:44:7	146252	-0:1	0:30	A0	7.70	.00	86	22	16	938	157	7.66
29	10.0C	959	507	22:39:31	-3:44:7	146252	-0:2	-1:2	A0	7.70	.00	61	29	18	871	152	7.70
30	10.0C	959	507	22:39:31	-3:44:7	146252	-0:4	0:49	A0	7.70	.00	108	68	21	3495	155	7.68
31	30.0C	737	429	22:39:31	-3:44:7	146252	-0:12	-1:36	A0	7.70	.00	87	99	21	4154	199	7.41
32	30.0C	967	509	22:39:31	-3:44:7	146252	-0:11	-5:46	A0	7.90	.00	227	19	190	484	455	7.45
33	3.0L	728	892	22:39:53	-12:49:18	165243	-0:10	-8:11	A0	7.90	.00	54	26	15	739	450	6.52
34	3.0C	678	892	22:39:53	-12:49:18	165243	-0:14	-7:15	A0	7.90	.00	129	70	19	3703 H	482	6.44
35	10.0C	734	892	22:39:53	-12:49:18	165243	-0:3	-6:27	A0	7.90	.00	169	170	24	11954 H	510	6.38
36	30.0C	742	894	22:39:53	-12:49:18	165243	-0:1	0:40	BB	8.20	.00	209	8	176	208 L	242	8.14
37	3.0L	708	390	22:40:22	-2:56:41	146268	-0:42	1:49	BB	8.20	.00	275	6	285	1207L	240	8.15
38	3.0C	954	475	22:40:22	-2:56:41	146268	-0:1	2:40	BB	8.20	.00	45	6	13	165 L	211	7.34
39	3.0C	659	388	22:40:22	-2:56:41	146268	0:4	1:27	BB	8.20	.00	98	25	15	1170	190	7.46
40	10.0C	715	388	22:40:22	-2:56:41	146268	0:4	1:27	BB	8.20	.00	67	36	17	1188	192	7.44
41	10.0C	946	467	22:40:22	-2:56:41	146268	-0:5	0:38	BB	8.20	.00	120	77	20	4303	217	7.31
42	30.0C	726	391	22:40:22	-2:56:41	146268	-0:5	-1:10	BB	8.20	.00	99	109	22	5029	208	7.36
43	30.0C	959	470	22:40:37	-7:13:31	146273	-0:5	-0:26	BB	6.30	.00	151	18	90	676	1314	6.30
44	1.0L	712	602	22:40:37	-7:13:31	146273	-0:5	-3:42	BB	6.30	.00	179	31	148	770 L	1430	6.20
45	1.0L	946	684	22:40:37	-7:13:31	146273	-0:1	-0:47	BB	6.30	.00	326	36	207	1942	1640	6.05
46	3.0L	713	602	22:40:37	-7:13:31	146273	-0:2	-3:19	BB	6.30	.00	385	126	34	4000 H	6300	4.59
47	3.0L	947	686	22:40:37	-7:13:31	146273	-0:3	0:5	BB	6.30	.00	139	30	14	1730	800	5.89
48	3.0C	664	601	22:40:37	-7:13:31	146273	-0:2	0:2	BB	6.30	.00	290	66	16	6315	971	5.68
49	10.0C	720	600	22:40:37	-7:13:31	146273	-0:5	-4:8	BB	6.30	.00	188	77	18	5707	800	5.89
50	10.0C	350	507	22:40:37	-7:13:31	146273	-0:5	-4:8	BB	6.30	.00	188	77	18	5707	800	5.89

PAGE, CARRUTHERS, AND HECKATHORN

AQUARIUS, R.A. 22:58 TO 23:16 DEC. -05:06 TO -03:12 (11 FRAMES)

OBJECT NO.	EXP. FILTER	X	Y	R.A.	DEC.	SAO NO.	A R.A.	A DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	BG	DENSITY VOLUME	CORR. V/E	UV MAG.
51	30.0C	731	603	22:40:37	-7:13:31	146273	-0: 9	-0:42	89	6.30	.00	333	159	23	18772	1040	5.60
52	30.0C	953	686	22:40:37	-7:13:31	146273	0:24	-0:39	89	6.30	.00	82	25	24	917 L	70E	8.55
53	1.0L	690	302	22:41:37	-1:12:58	146282	-0: 9	5:11	A3	8.80	.00	227	73	77	40287H	6100	4.62
54	3.0L	676	75	22:43: 5	3:22: 3	127740	0: 1	1:48	89	8.20	.00	166	27	130	728	415	7.55
55	3.0C	627	74	22:43: 5	3:22: 3	127740	0: 4	2:42	89	8.20	.00	54	26	14	735	455	6.50
56	10.0C	685	74	22:43: 5	3:22: 3	127740	0: 9	0:58	89	8.20	.00	139	70	17	3954 H	505	6.39
57	30.0C	694	77	22:43: 5	3:22: 3	127740	0: 7	0:23	89	8.20	.00	178	154	23	11428 H	462	6.49
58	10.0C	639	935	22:47:33	-13:43:29	NO	0: 2	0:49				52	16	21	419	132	7.85
59	30.0C	650	939	22:47:33	-13:43:29	NO	-0: 2	-0:49				71	79	29	2343	120	7.96
60	30.0C	608	310	22:49:55	-11:7:32							48	4	20	106?	17	10.09
61	.25L	596	841	22:50:50	-11:52:58	165359	-0: 7	-1: 1	89	5.89	.00	62	12	31	298 L	3050	5.38
62	1.0L	596	847	22:50:50	-11:52:58	165359	-0: 7	-0:50	89	5.89	.00	204	51	72	2913 H	3878	5.12
63	3.0L	598	847	22:50:50	-11:52:58	165359	-0: 6	-0:58	89	5.89	.00	408	75	169	6730 H	5930	4.65
64	3.0C	598	846	22:50:50	-11:52:58	165359	0: 1	0:32	89	5.89	.00	298	66	17	6119	2730	4.55
65	10.0C	604	845	22:50:50	-11:52:58	165359	-0: 8	-2: 9	89	5.89	.00	441	126	17	17292	3032	4.43
66	30.0C	613	848	22:50:50	-11:52:58	165359	-0: 3	-2:25	89	5.89	.00	445	288	24	44273	2520	4.64
67	10.0C	573	613	22:52:58	-7:15:38	NO	0: 0	0:18				44	6	15	154	64	8.64
68	30.0C	583	615	22:52:58	-7:15:38	NO	-0: 2	0:35				57	35	20	1003	55	8.81
69	30.0C	804	692	22:52:58	-7:15:38	NO	-0: 2	-0:18				53	38	21	1026	57	8.77
70	30.0C	534	158	22:56: 2	2: 1:45							46	4	19	96?	17	10.09
71	30.0C	538	473	22:56:16	-4:17:53		-0:11	-0:13	A0	8.70	.00	58	6	17	194?	23	9.76
72	10.0C	537	677	22:56:23	-8:28:53	146422	-0: 5	-1:43	A0	8.70	.00	63	16	17	520	91	8.26
73	10.0C	758	754	22:56:23	-8:28:53	146422	-0: 2	2:13	A0	8.70	.00	56	17	17	503	101	8.15
74	30.0C	544	678	22:56:23	-8:28:53	146422	-0:11	-2:19	A0	8.70	.00	77	56	20	2171	108	8.07
75	30.0C	768	757	22:56:23	-8:28:53	146422	-0:11	-2:19	A0	8.70	.00	75	63	21	2374	117	7.98
76	30.0C	541	820	22:56:53	-11:14:33							47	4	21	92?	17	10.09
77	30.0C	484	248	23: 0:16	0:21:35							48	4	19	100?	17	10.09
78	1.0L	464	526	23: 1:13	-5:16:15	NO	-0: 1	0: 5				105	6	66	161	490	7.37
79	3.0L	465	526	23: 1:13	-5:16:15	NO	0: 0	-0: 5				222	9	148	550	355	7.72
80	.25L	451	77	23: 1:19	3:33: 1	127934	0: 5	-0:11	85	4.58	.00	169	81	40	4549	25700	3.05
81	1.0L	451	83	23: 1:19	3:33: 1	127934	0: 7	-0:19	85	4.58	.00	452	157	63	23532 H	54000	2.24
82	1.0L	675	156	23: 1:19	3:33: 1	127934	0: 3	-2:10	85	4.58	.00	453	163	65	20841 H	47500	2.38
83	3.0L	452	83	23: 1:19	3:33: 1	127934	0: 6	-0: 5	85	4.58	.00	477	272	128	36140	40000	2.57
84	3.0L	677	159	23: 1:19	3:33: 1	127934	0: 1	-0:41	85	4.58	.00	477	275	135	32252	39000	2.60
85	3.0C	403	82	23: 1:19	3:33: 1	127934	0:15	-0:21	85	4.58	.00	457	183	16	26503	16313	2.60
86	3.0C	833	162	23: 1:19	3:33: 1	127934	0:16	1:19	85	4.58	.00	395	186	16	22515	12637	2.88
87	10.0C	461	81	23: 1:19	3:33: 1	127934	0: 8	3:50	85	4.58	.00	491	390	23	61450 L	11867	2.95
88	10.0C	679	159	23: 1:19	3:33: 1	127934	-0: 0	-2:23	85	4.58	.00	482	368	20	50165 L	8550	3.30
89	30.0C	469	85	23: 1:19	3:33: 1	127934	0:12	2:42	85	4.58	.00	447	790	24	12084 L	8900	3.26
90	30.0C	688	161	23: 1:19	3:33: 1	127934	-0: 2	-3: 3	85	4.58	.00	445	866	22	128660 L	9850	3.15
91	10.0C	442	213	23: 2:58	1: 2:38							55	10	15	296	60	8.71
92	1.0L	447	673	23: 3:16	-8:12:24	146505	-0: 6	1: 9	A0	6.85	.00	93	4	68	90 L	397	7.60
93	3.0L	448	673	23: 3:16	-8:12:24	146505	-0: 2	1:25	A0	6.85	.00	220	13	158	498 L	360	7.71
94	3.0L	673	744	23: 3:16	-8:12:24	146505	-0: 5	0:32	A0	6.85	.00	238	20	184	688	570	7.21
95	3.0C	399	671	23: 3:16	-8:12:24	146505	0: 1	4: 5	A0	6.85	.00	65	13	15	440 L	315	6.90
96	3.0C	830	747	23: 3:16	-8:12:24	146505	0:13	5:47	A0	6.85	.00	76	15	16	576	355	6.77
97	10.0C	465	670	23: 3:16	-8:12:24	146505	-0: 5	1:40	A0	6.85	.00	136	41	17	2265	287	7.01
98	10.0C	676	744	23: 3:16	-8:12:24	146505	-0: 7	-1:10	A0	6.85	.00	153	41	18	2566	325	6.87
99	30.0C	465	673	23: 3:16	-8:12:24	146505	-0: 6	1:33	A0	6.85	.00	169	105	22	7676	375	6.71
100	30.0C	685	6	23: 7: 0	-8:12:24	146505	-0: 8	-1:42	A0	6.85	.00	206	114	22	9496	470	6.47

NRL REPORT 8487

AQUARIUS, R.A. 22:59 TO 23:16 DEC. -05:06 TO -03:12 (11 FRAMES)

OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAO NO.	A R.A.	A DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	B0	DENSITY VOLUME	CORR. V/E	UV MAG.
101	30.0C	451	448	23: 3:33	-3:37:33	127991	0:20	-0:36	A0	7.70	.00	50	5	18	1312	20	9.91
102	10.0C	404	38	23: 6: 2	4:24:24	127991	0: 0	-1:32	A0	7.70	.00	47	10	21	234 L	108	8.07
103	10.0C	621	120	23: 6: 2	4:24:24	127991	0: 0	-1:32	A0	7.70	.00	49	12	16	322 L	83	8.36
104	30.0C	415	42	23: 6: 2	4:24:24	127991	0: 8	-1:44	A0	7.70	.00	58	45	26	1173 L	92	8.25
105	30.0C	629	122	23: 6: 2	4:24:24	127991	0: 3	-2: 3	A0	7.70	.00	67	54	21	1818 L	90	8.27
106	.25L	386	577	23: 8: 4	-6:13:55	146543	-0:10	-1:26	B8	7.01	.00	61	4	32	113 L	2060	5.81
107	1.0L	385	581	23: 8: 4	-6:13:55	146543	-0: 2	-0:29	B8	7.01	.00	179	26	64	1392 H	1750	5.98
109	1.0L	612	645	23: 8: 4	-6:13:55	146543	-0: 6	0:35	B8	7.01	.00	185	27	76	1478 H	1870	5.91
101	3.0L	387	582	23: 8: 4	-6:13:55	146543	-0: 4	-1:24	B8	7.01	.00	350	45	146	3061 H	2100	5.78
110	3.0L	613	649	23: 8: 4	-6:13:55	146543	-0: 3	0:50	B8	7.01	.00	366	46	173	2996 H	2350	5.66
111	3.0C	338	580	23: 8: 4	-6:13:55	146543	0: 0	-0: 9	B8	7.01	.00	201	40	16	2806	1140	5.50
112	3.0C	771	651	23: 8: 4	-6:13:55	146543	-0: 5	1:48	B8	7.01	.00	191	44	18	2614	1110	5.53
113	10.0C	395	579	23: 8: 4	-6:13:55	146543	-0: 9	-1:37	B8	7.01	.00	386	84	16	9404	1469	5.22
114	10.0C	616	648	23: 8: 4	-6:13:55	146543	-0: 7	0:27	B8	7.01	.00	373	87	22	8727	1230	5.42
115	30.0C	403	581	23: 8: 4	-6:13:55	146543	-0: 1	-0:12	B8	7.01	.00	387	191	23	25056	1420	5.26
116	30.0C	626	650	23: 8: 4	-6:13:55	146543	-0:13	-0:11	B8	7.01	.00	391	204	24	27176	1560	5.16
117	30.0C	607	781	23: 9:48	-8:46:58	128051	0: 0	-2:36	B2	6.93	.00	291	80	58	6407	10600	9.86
118	1.0L	552	107	23:11:27	4:43:28	128051	0: 3	-1: 3	B2	6.93	.00	432	129	125	12698	15100	3.63
119	3.0L	553	110	23:11:27	4:43:28	128051	0: 3	-2: 8	B2	6.93	.00	343	72	18	7980 L	3520	4.27
120	3.0C	710	113	23:11:27	4:43:28	128051	0: 2	-2:33	B2	6.93	.00	451	139	19	19677 L	3130	4.40
121	10.0C	555	110	23:11:27	4:43:28	128051	-0:10	-4:30	B2	6.93	.00	432	322	23	51609 L	2930	4.47
122	30.0C	566	113	23:11:27	4:43:28	128051	0: 2	-2:50	A2	5.55	.00	177	8	148	224 L	204	8.33
123	3.0L	322	466	23:12:59	-3:46: 9	146593	-0: 1	-0:40	A2	5.55	.00	175	5	14	116 L	151	8.66
124	3.0L	549	534	23:12:59	-3:46: 9	146593	0: 6	-1:34	A2	5.55	.00	46	6	14	163 L	166	7.60
125	3.0C	273	484	23:12:59	-3:46: 9	146593	0: 1	-3:25	A2	5.55	.00	102	29	16	1298 L	175	7.55
126	10.0C	330	463	23:12:59	-3:46: 9	146593	-0: 1	0:22	A2	5.55	.00	76	20	15	773 L	129	7.88
127	10.0C	551	532	23:12:59	-3:46: 9	146593	0: 3	-3:11	A2	5.55	.00	119	74	20	4273 L	176	7.54
128	30.0C	339	466	23:12:59	-3:46: 9	146593	-0: 2	-0:12	A2	5.55	.00	97	60	17	3008 L	132	7.85
129	30.0C	560	534	23:12:59	-3:46: 9	146593	-0: 2	-0:12	A2	5.55	.00	173	19	132	566 L	340	7.77
130	3.0L	307	875	23:15: 3	-11:59:11	165609	0:10	-1:32	A0	6.36	.00	191	23	150	692 L	445	7.48
131	3.0L	534	962	23:15: 3	-11:59:11	165609	0: 1	-2:35	A0	6.36	.00	55	19	15	546 L	368	6.73
132	3.0C	257	873	23:15: 3	-11:59:11	165609	0: 5	-1:20	A0	6.36	.00	62	20	22	608 L	382	6.69
133	3.0C	691	955	23:15: 3	-11:59:11	165609	0:14	-3:44	A0	6.36	.00	134	58	19	3089	384	6.69
134	10.0C	314	872	23:15: 3	-11:59:11	165609	0: 3	-2:21	A0	6.36	.00	129	63	20	3339	447	6.52
135	10.0C	538	962	23:15: 3	-11:59:11	165609	-0: 5	-5:25	A0	6.36	.00	165	143	22	9947	432	6.56
136	30.0C	325	875	23:15: 3	-11:59:11	165609	-0: 3	-1: 3	A0	6.36	.00	203	163	24	13053	750	5.96
137	30.0C	546	954	23:15: 3	-11:59:11	165609	-0: 1	-5:48	A0	6.36	.00	178	10	138	290	234	8.18
138	3.0L	303	614	23:15: 6	-6:45:55	NO	0: 9	-0: 5				210	9	164	400	330	7.80
139	3.0L	531	683	23:15: 6	-6:45:55	NO	-0: 1	0:16				39	4	14	93	172	7.56
140	3.0C	254	613	23:15: 6	-6:45:55	NO	0: 7	-1:32				65	10	19	318	223	7.28
141	3.0C	688	685	23:15: 6	-6:45:55	NO	-0: 3	0:44				74	22	16	813	134	7.84
142	10.0C	310	611	23:15: 6	-6:45:55	NO	0: 8	-0:48				86	24	17	915	152	7.70
143	10.0C	534	682	23:15: 6	-6:45:55	NO	-0: 9	2:37				93	69	21	3049	140	7.79
144	30.0C	322	615	23:15: 6	-6:45:55	NO	-0: 3	-2: 2				100	73	21	3353	154	7.68
145	30.0C	543	684	23:15: 6	-6:45:55	NO	-0:10	0:49				277	61	30	5010	27300	2.99
146	.25L	304	742	23:15:18	-9:27:20	146620	0: 3	1:44	B5	4.56	.00	442	159	59	16835 H	36200	2.68
147	1.0L	303	746	23:15:18	-9:27:20	146620	0: 9	2:31	B5	4.56	.00	448	169	71	17752 H	42500	2.50
148	1.0L	531	815	23:15:18	-9:27:20	146620	-0: 2	2:15	B5	4.56	.00	472	284	137	30018	39500	2.58
149	3.0L	306	747	23:15:18	-9:27:20	146620	0: 3	2:57	B5	4.56	.00	472	287	160	29976	41000	2.54
150	3.0L	533	819	23:15:18	-9:27:20	146620	-0: 5	2:36	B5	4.56	.00	472	287	160	29976	41000	2.54

# PAGE, CARRUTHERS, AND HECKATHORN

AQUARIUS, R.A. 22:58 TO 23:16 DEC. -05:06 TO -03:12 (11 FRAMES)

OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAO NO.	Δ R.A.	Δ DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	BG	DENSITY VOLUME	CORR. V/E	UV MAG.
151	3.0C	256	745	23:15:18	-9:27:20	146620	0: 5	1:48	B5	4.56	.00	452	223	18	26145	14700	2.71
152	3.0C	690	821	23:15:18	-9:27:20	146620	-0: 3	1:56	B5	4.56	.00	389	241	19	25898	14700	2.71
153	10.0C	312	744	23:15:18	-9:27:20	146620	0:10	2:21	B5	4.56	.00	485	421	18	66514	12125	2.92
154	10.0C	534	818	23:15:18	-9:27:20	146620	0: 3	2:20	B5	4.56	.00	482	430	24	61758	11892	2.94
155	30.0C	324	747	23:15:18	-9:27:20	146620	-0: 1	2:21	B5	4.56	.00	450	1020	25	136900	11500	2.98
156	30.0C	545	819	23:15:18	-9:27:20	146620	-0: 9	2:54	B5	4.56	.00	447	888	39	143534	13100	2.84
157	.25L	291	764	23:16:21	-9:53: 3	146635	0: 7	2:21	A0	5.16	.00	57	8	28	198	2620	5.54
158	1.0L	290	769	23:16:21	-9:53: 3	146635	0: 8	1:46	A0	5.16	.00	192	40	58	2397	3314	5.29
159	1.0L	518	839	23:16:21	-9:53: 3	146635	0: 3	1:34	A0	5.16	.00	203	45	65	2712	3570	5.21
160	3.0L	292	769	23:16:21	-9:53: 3	146635	0: 8	2:19	A0	5.16	.00	376	56	139	4945	4100	5.05
161	3.0L	520	842	23:16:21	-9:53: 3	146635	-0: 5	2:55	A0	5.16	.00	404	63	157	5190	4643	4.92
162	3.0C	243	768	23:16:21	-9:53: 3	146635	0: 5	1: 6	A0	5.16	.00	279	67	18	5366	2420	4.68
163	3.0C	677	845	23:16:21	-9:53: 3	146635	0: 3	1:31	A0	5.16	.00	296	63	19	5640	2520	4.64
164	10.0C	299	766	23:16:21	-9:53: 3	146635	0: 9	1:31	A0	5.16	.00	427	163	18	17541	3044	4.43
165	10.0C	523	842	23:16:21	-9:53: 3	146635	-0: 8	1:25	A0	5.16	.00	433	133	24	15918	2550	4.62
166	30.0C	309	769	23:16:21	-9:53: 3	146635	0: 9	1:43	A0	5.16	.00	417	323	31	41165	2520	4.64
167	30.0C	532	844	23:16:21	-9:53: 3	146635	-0: 9	0:55	A0	5.16	.00	424	340	33	47347	2900	4.48
168	3.0L	519	981	23:16:25	-12:26:38	165622	-0: 5	-8:30	A0	7.60	.00	158	6	147	323	360E	7.71
169	10.0C	296	897	23:16:25	-12:26:38	165622	0: 4	-3:16	A0	7.60	.00	51	18	19	460	124	7.92
170	10.0C	521	978	23:16:25	-12:26:38	165622	-0: 3	-6:13	A0	7.60	.00	51	16	19	424	142E	7.77
171	30.0C	307	900	23:17:25	-12:26:38	165622	-0: 3	-3: 9	A0	7.60	.00	68	65	22	2198	110	8.05
172	30.0C	532	981	23:16:25	-12:26:38	165622	-0:13	-9: 5	A0	7.60	.00	75	75	27	2540	125E	7.91
173	30.0C	531	808	23:16:25	-9:20: 0	146637	-0: 9	9:11	A2	9.40	.00	64	5	38	115	17	10.09
174	1.0L	500	617	23:17:20	-5:27:55	NO*	0: 0	2:45				97	4	70	100	415	7.55
175	3.0L	273	592	23:17:20	-5:27:55	NO*	0: 6	-1:27				186	14	131	488	305	7.89
176	3.0C	502	621	23:17:20	-5:27:55	NO*	-0: 2	2:53				224	16	158	591	420	7.54
177	3.0C	224	550	23:17:20	-5:27:55	NO*	0: 9	-1:44				48	7	15	186	215	7.32
178	10.0C	281	549	23:17:20	-5:27:55	NO*	0: 2	-2:24				102	29	16	1331	185	7.48
179	10.0C	504	650	23:17:20	-5:27:55	NO*	-0: 1	2:44				101	27	17	1256	188	7.47
180	30.0C	293	553	23:17:20	-5:27:55	NO*	-0: 5	-3:29				122	88	21	4733	225	7.27
181	30.0C	514	622	23:17:20	-5:27:55	NO*	-0:12	0:46				125	81	18	4765	225	7.27
182	3.0L	271	737	23:18: 3	-9:11:37	146650	0:13	0:25	A0	8.40	.00	163	8	132	201	188	8.42
183	3.0L	500	808	23:18: 3	-9:11:37	146650	-0: 6	4:24	A0	8.40	.00	182	7	154	174	182	8.39
184	3.0C	657	811	23:18: 3	-9:11:37	146650	0: 1	0:15	A0	8.40	.00	49	7	16	185	199	7.41
185	10.0C	278	734	23:18: 3	-9:11:37	146650	0:10	-0:36	A0	8.40	.00	85	28	18	1105	200	7.40
186	10.0C	503	808	23:18: 3	-9:11:37	146650	-0: 8	1:41	A0	8.40	.00	94	30	19	1221	188	7.47
187	30.0C	285	736	23:18: 3	-9:11:37	146650	0:23	2:24	A0	8.40	.00	110	90	22	4585	225	7.27
188	30.0C	512	810	23:18: 3	-9:11:37	146650	-0: 9	1:10	A0	8.40	.00	125	93	27	4837	240	7.20
189	.25L	255	774	23:19:15	-10: 2: 8	165651	0:10	0:55	B3	7.60	.00	68	20	28	579	4270	5.01
190	1.0L	255	779	23:19:15	-10: 2: 8	165651	0: 6	0:10	B3	7.60	.00	243	62	55	4504	H 7960	4.33
191	1.0L	484	849	23:19:15	-10: 2: 8	165651	-0: 0	3:28	B3	7.60	.00	300	61	64	4974	H 7700	4.37
192	3.0L	257	780	23:19:15	-10: 2: 8	165651	0: 6	0:27	B3	7.60	.00	426	97	131	9338	H 10000	4.08
193	3.0L	485	853	23:19:15	-10: 2: 8	165651	-0: 3	3:39	B3	7.60	.00	432	93	150	9008	H 7980	4.33
194	3.0C	207	778	23:19:15	-10: 2: 8	165651	0: 6	0:20	B3	7.60	.00	292	73	25	6358	H 3000	4.45
195	3.0C	643	855	23:19:15	-10: 2: 8	165651	0: 0	0:49	B3	7.60	.00	303	67	20	6488	H 2900	4.48
196	10.0C	263	777	23:19:15	-10: 2: 8	165651	0:11	-0: 9	B3	7.60	.00	449	164	17	20719	3557	4.26
197	10.0C	489	852	23:19:15	-10: 2: 8	165651	-0: 5	3:26	B3	7.60	.00	444	140	22	18185	2950	4.46
198	30.0C	273	779	23:19:15	-10: 2: 8	165651	0:10	1:21	B3	7.60	.00	426	332	23	48439	2750	4.54
199	30.0C	497	854	23:19:15	-10: 2: 8	165651	-0: 7	2:56	B3	7.60	.00	428	338	26	50957	2950	4.46
200	1.0L	465	521	23:19:52	-3:24:54	NO	-0: 1	-0: 6				100	6	63	176	505	7.34

NRL REPORT 8487

AQUARIUS, R.A. 22:58 TO 23:16 DEC. -05:06 TO -03:12 (11 FRAMES)

OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAO NO.	Δ R.A.	Δ DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	BG	DENSITY VOLUME	CORR. V/E	UV MAG.
201	3.0L	466	525	23:19:52	-3:24:54	NO	0: 2	0: 6				217	11	146		310	7.87
202	3.0L	447	231	23:20:19	2:32:38	128150	0: 4	1: 17	A0	6.92	.00	165	9	130	454	205	8.32
203	3.0C	603	234	23:20:19	2:32:38	128150	-0: 7	-3: 8	A0	6.92	.00	59	10	14	350 L	270	7.07
204	10.0C	231	144	23:20:19	2:32:38	128150	0: 7	0: 46	A0	6.92	.00	72	37	17	1302 L	210	7.35
205	10.0C	449	231	23:20:19	2:32:38	128150	0: 3	-0: 3	A0	6.92	.00	122	29	15	1560	225	7.27
206	30.0C	242	149	23:20:19	2:32:38	128150	-0: 3	-1: 11	A0	6.92	.00	103	104	22	5082	260	7.11
207	30.0C	458	233	23:20:19	2:32:38	128150	0: 1	-0: 32	A0	6.92	.00	152	77	18	5564	260	7.11
208	10.0C	218	205	23:21:36	1:24:00							26	0	17	0	23	9.76
209	1.0L	428	53	23:21:49	5:54:41	128162	0: 8	-1: 47	A0	7.14	.00	89	8	63	186	545	7.26
210	3.0L	429	56	23:21:49	5:54:41	128162	0: 4	0: 18	A0	7.14	.00	181	32	124	1515 H	810	6.82
211	3.0C	585	60	23:21:49	5:54:41	128162	-0: 7	0: 54	A0	7.14	.00	74	32	16	1168	645	6.12
212	10.0C	430	57	23:21:49	5:54:41	128162	0: 9	-1: 32	A0	7.14	.00	162	100?	21	4664?	700	6.03
213	30.0C	438	59	23:21:49	5:54:41	128162	0: 12	-1: 51	A0	7.14	.00	284	168	24	17820 H	892	5.77
214	1.0L	192	848	23:24: 9	-11:18:27	165696	0: 22	-3: 34	88*	8.40	.00	88	37	47	1028 H	2137	5.77
215	1.0L	424	921	23:24: 9	-11:18:27	165696	-0: 1	-3: 30	88*	8.40	.00	121	43	57	1600 H	2150	5.76
216	3.0L	194	849	23:24: 9	-11:18:27	165696	0: 22	-2: 48	88*	8.40	.00	208	68	112	3317 H	1950	5.87
217	3.0L	425	924	23:24: 9	-11:18:27	165696	0: 1	-1: 59	88*	8.40	.00	284	67	140	4193 H	2540	5.58
218	3.0C	145	847	23:24: 9	-11:18:27	165696	0: 17	-3: 54	88*	8.40	.00	86	50	15	1956 H	916	5.74
219	3.0C	583	927	23:24: 9	-11:18:27	165696	0: 15	-0: 46	88*	8.40	.00	141	52	22	2875 H	1260	5.39
220	10.0C	201	846	23:24: 9	-11:18:27	165696	0: 17	-4: 24	88*	8.40	.00	225	110	17	8670 H	1165	5.48
221	10.0C	428	924	23:24: 9	-11:18:27	165696	-0: 1	-3: 22	88*	8.40	.00	307	104	24	9639 H	1430	5.25
222	30.0C	211	849	23:24: 9	-11:18:27	165696	-0: 17	-4: 2	88*	8.40	.00	283	230	22	24088 H	1400	5.28
223	30.0C	437	926	23:24: 9	-11:18:27	165696	-0: 2	-3: 52	88*	8.40	.00	398	225	26	32593 H	1870	4.96
224	1.0L	172	229	23:24:22	0:58:53	128186	0: 7	1: 29	A2	4.94	.00	77	12	49	293 L	700	6.98
225	1.0L	400	311	23:24:22	0:58:53	128186	0: 6	-0: 21	A2	4.94	.00	123	18	55	706	1060	6.53
226	3.0L	174	230	23:24:22	0:58:53	128186	0: 3	1: 4	A2	4.94	.00	176	39	113	1419 L	690	7.00
227	3.0L	401	314	23:24:22	0:58:53	128186	0: 9	1: 6	A2	4.94	.00	266	33	129	1893	1120	6.47
228	3.0C	125	229	23:24:22	0:58:53	128186	-0: 3	-1: 42	A2	4.94	.00	83	34	14	1392 L	710	6.02
229	3.0C	558	317	23:24:22	0:58:53	128186	-0: 8	-2: 50	A2	4.94	.00	157	27	14	1637	750	5.96
230	10.0C	183	227	23:24:22	0:58:53	128186	0: 2	0: 49	A2	4.94	.00	220	82	16	6490	823	5.86
231	10.0C	403	314	23:24:22	0:58:53	128186	0: 9	-0: 10	A2	4.94	.00	304	61	20	5279	700	6.03
232	30.0C	194	232	23:24:22	0:58:53	128186	-0: 7	-1: 4	A2	4.94	.00	265	177	22	17803	853	5.82
233	30.0C	412	316	23:24:22	0:58:53	128186	-0: 7	-0: 37	A2	4.94	.00	332	142	20	16039	850	5.82
234	3.0L	152	269	23:26:22	0:14:34	NO	0: 5	-1: 0				138	4	112	95	127	8.85
235	30.0C	168	271	23:26:22	0:14:34	NO	0: 4	1: 0				83	31	22	1073?	57	8.77
236	1.0L	153	479	23:26:47	-3:52:15	146732	0: 3	-2: 58	A0	8.50	.00	66	0	52	0	393	7.61
237	1.0L	385	553	23:26:47	-3:52:15	146732	-0: 3	-2: 22	A0	8.50	.00	89	4	64	99	420	7.54
238	3.0L	154	479	23:26:47	-3:52:15	146732	-0: 5	-3: 5	A0	8.50	.00	147	19	113	472	492	7.37
239	3.0L	386	556	23:26:47	-3:52:15	146732	-0: 1	-0: 57	A0	8.50	.00	206	13	147	463	315	7.85
240	3.0C	105	478	23:26:47	-3:52:15	146732	0: 1	-5: 11	A0	8.50	.00	40	7	14	157 L	212	7.34
241	3.0C	543	559	23:26:47	-3:52:15	146732	-0: 9	-4: 54	A0	8.50	.00	56	12	14	349	285	7.01
242	10.0C	163	477	23:26:47	-3:52:15	146732	0: 3	-4: 54	A0	8.50	.00	85	36	16	1644	208	7.36
243	10.0C	389	556	23:26:47	-3:52:15	146732	-0: 5	-2: 16	A0	8.50	.00	111	35	16	1644	240	7.20
244	30.0C	174	481	23:26:47	-3:52:15	146732	-0: 4	-5: 33	A0	8.50	.00	118	97	21	5170	260	7.11
245	30.0C	397	557	23:26:47	-3:52:15	146732	-0: 2	-1: 25	A0	8.50	.00	130	83	18	5206	250	7.16
246	10.0C	234	203	23:38:17	3:20:59	128322	-0: 4	-0: 14	A0	8.50	.00	58	23	16	690	128	7.89
247	30.0C	241	205	23:38:17	3:20:59	128322	0: 4	-0: 14	A0	8.90	.00	78	72	19	2856	131	7.86
248	30.0C	220	401	23:40:44	-0:25:59	128360	0: 0	-3: 42	A0	8.40	.00	46	17	20	386 L	31	9.43
249	3.0L	83	285	23:50:31	1:48:45	128436	-0: 6	2: 32	A0	6.24	.00	155	33	107	1190	550	7.25
250	10.0C	85	286	23:50:31	1:48:45	128436	-0: 6	1: 27	A0	6.24	.00	152	93	17	5505	820	5.86

PAGE, CARRUTHERS, AND HECKATHORN

AQUARIUS, R.A. 22:58 TO 23:16 DEC. -05:06 TO -03:12 (11 FRAMES)																
OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAO NO.	R.A. DEC.	A SPEC. TYPE	P MAG.	PEAK DEN.	NO. OF POINTS	BG	DENSITY VOLUME	CORR. V/E	UV MAG.	
251	30.0C	97	290	23:50:31	1:48:45	128436	-0:21 -1:28	A0	6.24	.00	221	196	19	17367	980	5.67
252	3.0C	240	289	23:50:40	2: 3:44						67	37	14	1216?	665	6.09



NRL REPORT 8487

FURNAX, R.A. 03:42 DEC. -27:20 (5 FRAMES)																	
OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAO NO.	A R.A.	A DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	BG	DENSITY VOLUME	CORR. V/E	UV MAG.
1	3.0L	481	947	3: 4:51	-24:38:13							122	14	89	372?	223	8.23
2	3.0L	254	806	3: 8:59	-29:59:52	194145	-0:19	-1:13	A5	8.80	8.66	114	8	79	214?	180	8.46
3	3.0L	244	791	3: 9:47	-30:27:49	194197	-0:4	-3:38	89	6.62	.00	104	10	74	267 H	202	8.34
4	1.0L	238	735	3:14: 7	-31: 0:40	194197	-0:5	-2:59	89	6.62	.00	71	14	34	389	835	6.79
5	3.0L	238	735	3:14: 7	-31: 0:40	194197	-0:9	-2:41	89	6.62	.00	169	38	76	1813	820	6.81
6	3.0C	199	740	3:14: 7	-31: 0:40	194197			89	6.62	.00	88	31	17	1208	625	6.16
7	3.0L	160	643	3:19:20	-33:13:29							112	7	70	214?	183	8.45
8	3.0L	731	859	3:19:27	-20:30: 9	168485?	-0:23	1:37	A0	6.58	.00	109	11	80	284 L	200	8.35
9	1.0L	500	759	3:20: 7	-25:45:56	168493	0:11	-1:10	A0	6.26	.00	68	7	37	176 L	588	7.17
10	3.0L	500	759	3:20: 7	-25:45:56	168493	0:10	-0:32	A0	6.26	.00	168	33	87	1333	571	7.21
11	3.0C	461	764	3:20: 7	-25:45:56	168493	0:18	-3: 7	A0	6.25	.00	81	17	18	608 L	372	6.72
12	3.0L	466	685	3:25:27	-26:58:39							224	20	88	1158?	485	7.38
13	3.0L	708	769	3:25:33	-21:34:11	168560	-0:13	0: 6	89	9.00	.00	107	5	82	118	145	8.70
14	3.0C	574	706	3:28:14	-23:56:29							43	5	16	116?	192	7.44
15	1.0L	732	722	3:29:51	-21:24:57	168614	-0: 7	0:14	85	8.80	.00	66	9	36	223	665	7.04
16	3.0L	732	722	3:29:51	-21:24:57	168614	-0: 7	0:48	85	8.80	.00	173	32	84	1444 H	632	7.09
17	3.0C	693	727	3:29:51	-21:24:57	168614	-0:11	-0:38	85	8.80	.00	76	19	16	676	405	6.63
18	3.0L	628	678	3:30:25	-23:47:48	168620	-0: 4	2:11	89	9.10	.00	111	4	87	93	126	8.85
19	1.0L	529	637	3:31:12	-26: 1	N1360	-0: 4	3:22	PLAN		14.4	115	18	39	732	1200	6.40
20	3.0L	530	637	3:31:12	-26: 1	N1360	0: 2	1:37	PLAN		14.4	271	37	88	2440	1180	6.41
21	3.0C	491	642	3:31:12	-26: 1	N1360	0: 5	4: 8	PLAN		14.4	103	26	16	1081	570	6.26
22	1.0L	721	696	3:31:34	-21:47:57	168634	-0: 8	-0:20	88	4.32	.00	414	109	39	11792 H	21800	3.23
23	3.0L	720	696	3:31:34	-21:47:57	168634	-0: 9	-0:58	88	4.32	.00	463	233	86	25176	23600	3.15
24	.5C	758	700	3:31:34	-21:47:57	168634			88	4.32	.00	308	66	18	6755	13900	2.77
25	3.0C	682	701	3:31:34	-21:47:57	168634	-0: 6	-1:38	88	4.32	.00	403	182	15	17696	9700	3.17
26	.3C	682	701	3:31:34	-21:47:57	168634	-0: 6	-0:37	88	4.32	.00	259	48	16	4059 H	16700	2.57
27	3.0C	886	749	3:33:54	-17:28:41	190611	-0:18	-4:57	A2	9.60	.00	354	140	18	15806 H	8300	3.34
28	1.0L	924	744	3:34: 0	-17:37:53	190633	-0:24	2: 2	A0	5.32	.00	210	119	33	8589 H	13600	3.75
29	3.0L	924	744	3:34: 0	-17:37:53	190633	-0:23	2:35	A0	5.32	.00	445	181	74	25354 H	21400	3.25
30	3.0C	886	749	3:34: 0	-17:37:53	190633	-0:24	4:14	A0	5.32	.00	354	140	18	15806 H	8250	3.34
31	.3C	885	748	3:34: 0	-17:37:53	190633	-0:25	4: 5	A0	5.32	.00	82	47	16	1821 H	7900	3.39
32	1.0L	455	550	3:36:42	-28: 6:19	168701	-0: 4	-0:45	A0	6.08	.00	99	13	37	506	690	6.72
33	3.0L	456	550	3:36:42	-28: 6:19	168701	-0: 2	0:59	A0	6.08	.00	224	22	86	1421	540	7.27
34	3.0C	417	555	3:36:42	-28: 6:19	168701	-0: 0	-1: 7	A0	6.08	.00	116	26	16	1278	635	6.14
35	3.0L	112	442	3:37: 0	-35:37	N1399?	-1: 0	-4:41	E0	11.1	(GAL)	115	5	73	185	167	8.35
36	3.0L	467	522	3:39:27	-28: 2:21	N0						129	7	83	226?	180	8.46
37	3.0L	660	574	3:39:50	-23:48:13	168752	-0: 0	0:35	A0	8.30	.00	116	6	87	141?	150	8.66
38	1.0L	286	458	3:40:15	-32: 5:49	194467	-0: 7	0:11	85	4.93	.00	405	134	40	11744 H	20800	3.28
39	3.0L	286	458	3:40:15	-32: 5:49	194467	-0: 8	0:42	05	4.93	.00	451	255	82	24997	23000	3.17
40	.5C	323	461	3:40:15	-32: 5:49	194467			85	4.93	.00	288	64	17	6276	14200	2.75
41	3.0C	247	463	3:40:15	-32: 5:49	194467	-0: 9	0:32	85	4.93	.00	392	196	15	18368	11000	3.03
42	.3C	246	462	3:40:15	-32: 5:49	194467	-0: 5	0: 0	85	4.93	.00	237	50	16	3827 H	16100	2.61
43	3.0L	659	509	3:45:30	-24: 1:42	168836	0:17	-0:12	88	6.25	.00	107	4	82	93 L	128	8.84
44	1.0L	109	333	3:45:56	-36:15:31	194537	0:17	1:27	88	6.25	.00	112	56	36	2274 H	3200	5.33
45	3.0L	110	333	3:45:56	-36:15:31	194537	0:17	1:27	88	6.25	.00	264	103	74	7324 H	4700	4.91
46	3.0C	71	337	3:45:56	-36:15:31	194537	0:15	2: 2	88	6.25	.00	182	76	16	5219	2450	4.67
47	.3C	70	337	3:45:56	-36:15:31	194537	0:14	1:55	88	6.25	.00	37	9	13	196 L	2380	4.70
48	3.0L	103	300	3:48:45	-36:34:31	194570	0:18	0:22	89	6.79	.00	131	47	72	1693	690	7.00
49	3.0C	64	304	3:48:45	-36:34:31	194570	0:23	1:50	89	6.79	.00	67	34	16	1104	505	6.19
50	1.0L	654	434	3:51:34	-24:45:33	168925	-0: 1	-0:56	85	4.76	.00	412	137	37	12475 H	21700	3.24

# PAGE, CARRUTHERS, AND HECKATHORN

FORNAX, R.A. 03:42 DEC. -27:20 (5 FRAMES)

OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAO NO.	Δ R.A.	Δ DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	BG	DENSITY VOLUME	CORR. V/E	UV MAG.
51	3.0L	653	434	3:51:34	-24:45:33	168925	-0: 3	-1:42	B5	4.76	.00	457	276	84	28330	26600	3.01
52	3.0C	615	439	3:51:34	-24:45:33	168925	0: 2	-2:31	B5	4.76	.00	396	169	14	17604	11820	2.95
53	.3C	615	439	3:51:34	-24:45:33	168925	0: 2	-1:27	B5	4.76	.00	212	48	16	3574	H 15200	2.68
54	3.0L	193	299	3:51:44	-34:52:45	194608	0: 6	0:30	B5	5.12	.00	403	118	37	12884	H 22600	3.19
55	3.0L	194	299	3:51:44	-34:52:45	194608	0: 6	2: 8	B5	5.12	.00	462	214	76	25934	22600	3.19
56	.5C	230	302	3:51:44	-34:52:45	194608	0: 4	2:20	B5	5.12	.00	212	68	17	5952	11600	2.97
57	3.0C	155	303	3:51:44	-34:52:45	194608	0: 1	1: 2	B5	5.12	.00	408	159	15	18971	11760	2.96
58	.3C	153	303	3:51:44	-34:52:45	194608						176	53	15	3624	H 14400	2.73
59	3.0C	553	417	3:52: 5	-26:11:16							87	10	14	414?	292	6.99
60	3.0C	185	264	3:56:16	-34:29:28							44	4	15	105?	180	7.51
61	3.0L	420	314	3:56:43	-30:15:30							143	13	82	517?	262	8.06
62	3.0C	888	449	3:57:27	-19:22:14							43	4	14	113?	185	7.48
63	3.0L	702	375	3:57:47	-24: 9:25	169017	-0: 0	0:27	A0	4.69	.00	274	55	38	4651	6150	4.61
64	3.0L	702	375	3:57:47	-24: 9:25	169017	0: 5	0:31	A0	4.69	.00	428	102	85	10236	8400	4.27
65	.5C	739	378	3:57:47	-24: 9:25	169017						144	34	17	2355	5400	3.80
66	3.0C	663	379	3:57:47	-24: 9:25	169017	0: 3	-1: 6	A0	4.69	.00	339	85	15	7614	4472	4.01
67	.3C	662	379	3:57:47	-24: 9:25	169017	0: 2	-1:13	A0	4.69	.00	123	24	16	1193	5800	3.73
68	1.0L	408	289	3:58:40	-30:37:49	194689	0: 6	-0:48	A0	5.85	.00	74	9	34	279	L 715	6.96
69	3.0L	408	289	3:58:40	-30:37:49	194689	0: 5	-0:24	A0	5.85	.00	182	26	79	1292	L 545	7.26
70	3.0C	370	293	3:58:40	-30:37:49	194689	0: 8	-1: 9	A0	5.85	.00	99	17	16	819	L 452	6.51
71	3.0L	323	259	3:59:13	-32:32:14	NO	0: 5	0:34				137	22	77	780	364	7.70
72	3.0C	284	264	3:59:13	-32:32:14	NO	-0: 4	-0:33				53	12	16	324	277	7.04
73	1.0L	898	389	4: 1:12	-20:16:50	169071	0: 9	0: 7	B3	6.39	.00	328	120	36	11559	H 18400	3.42
74	3.0L	897	388	4: 1:12	-20:16:50	169071	0: 8	-0:42	B3	6.39	.00	470	213	79	28750	H 25300	3.07
75	3.0C	859	393	4: 1:12	-20:16:50	169071	0: 6	2:13	B3	6.39	.00	396	124	18	14751	7650	3.42
76	.3C	858	393	4: 1:12	-20:16:50	169071	0: 4	2: 7	B3	6.39	.00	120	44	15	2310	10900	3.04
77	3.0C	742	324	4: 4:21	-22:53:18							53	7	14	217?	233	7.23
78	3.0C	544	260	4: 5:32	-27:17: 9	169274?	0:20	-9:30	A2	6.80	.00	74	9	15	364?	274	7.06
79	3.0C	798	223	4:13:42	-22:16:27							41	4	14	96	L 175	7.55
80	3.0C	535	156	4:14:15	-28: 3:53							59	27	17	712?	437	6.55
81	1.0L	308	63	4:16: 0	-33:55: 9	194902	-0: 6	-1: 9	B9	3.59	.00	296	107	34	8450	13200E	3.78
82	3.0L	309	63	4:16: 0	-33:55: 9	194902	-0: 5	0:27	B9	3.59	.00	422	188	90	23640	15310E	3.62
83	.5C	344	64	4:16: 0	-33:55: 9	194902	-0: 8	-2:45	B9	3.59	.00	247	93	19	8912	15300E	2.67
84	3.0C	268	66	4:16: 0	-33:55: 9	194902	-0: 1	-1:53	B9	3.59	.00	435	207	21	29796	16700E	2.57
85	.3C	268	65	4:16: 0	-33:55: 9	194902						240	76	17	6281	H 28500E	1.99

NRL REPORT 8487

SAGITTARIUS EAST, R.A. 18:34 DEC. -30:24 (6 FRAMES)

OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	S.A.O. NO.	Δ R.A.	Δ DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	B.G.	DENSITY VOLUME	CORR. V/E	UV MAG.
1	1.0L	308	302	18:21:30	-24:52	N6626	-0: 6	-0: 6	GLOB		8.5	83	16	81	17	17	11.04
2	3.0L	305	301	18:21:30	-24:52	N6626	0: 0	0: 0	GLOB		8.5	290	16	278	75	25	10.62
3	3.0C	307	297	18:21:30	-24:52	N6626	-0: 7	-6:10	GLOB		8.5	39	16	27	100	33	9.37
4	10.0C	314	298	18:21:30	-24:52	N6626	-0:10	-7:27	GLOB		8.5	75	16	47	162	16	10.16
5	30.0C	312	281	18:21:30	-24:52	N6626	-0:25	5:30	GLOB		8.5	79	16	72	58	2	12.42
6	3.0L	380	331	18:21:32	-26:31:15	186780	-0: 8	0:36	A0	8.50	.00	362	49	287	2003 H	2060	5.81
7	3.0C	375	323	18:21:32	-26:31:15	186780	-0: 4	1:47	A0	8.50	.00	57	8	21	220	235	7.22
8	10.0C	383	321	18:21:32	-26:31:15	186780	-0: 1	0:48	A0	8.50	.00	123	35	35	1237	175	7.55
9	30.0C	387	314	18:21:32	-26:31:15	186780	-0: 1	2: 1	A0	8.50	.00	168	66	75	3529	175	7.55
10	10.0C	334	299	18:21:33	-25:22:38	NO?	-0:24	-0:43				65	8	34	192?	62	8.68
11	30.0C	335	300	18:21:33	-25:22:38	NO?	0:24	0:43				119	9	71	321	22	9.81
12	3.0L	977	553	18:21:36	-39:48:58	210114	0:20	3:41	A5	8.96	8.98	285	45	230	1491 H	1400	6.23
13	3.0C	973	545	18:21:36	-39:48:58	210114	0:18	2:26	A5	8.96	8.98	50	21	19	527 H	355	6.77
14	10.0C	981	542	18:21:36	-39:48:58	210114	0:24	3:17	A5	8.96	8.98	134	73	35	3585 H	495	6.41
15	30.0C	985	535	18:21:36	-39:48:58	210114	0:22	4:39	A5	8.96	8.98	178	147	71	8422 H	570	6.26
16	10.0C	809	474	18:21:46	-36: 3:36	NO*	0: 0	-1:15				76	17	31	528	99	8.17
17	30.0C	813	467	18:21:46	-36: 3:36	NO*	0: 1	1:15				109	46	65	1524	68	8.58
18	3.0L	977	553	18:21:47	-39:41:17	210115	0:10	-4: 1	B8	8.68	8.20	285	45	230	1491 H	1400	6.23
19	3.0C	973	545	18:21:47	-39:41:17	210115	0: 7	-5:15	B8	8.68	8.20	50	21	19	527 H	355	6.77
20	10.0C	981	542	18:21:47	-39:41:17	210115	0:13	-4:25	B8	8.68	8.20	134	73	35	3585 H	495	6.41
21	30.0C	985	535	18:21:47	-39:41:17	210115	0:11	-3: 3	B8	8.68	8.20	178	147	71	8422 H	570	6.26
22	3.0L	289	300	18:22: 0	-24:26:34	186787	-0:20	-2:56	B9	8.60	.00	297	5	272	106?L	490*	7.37
23	3.0L	283	301	18:22: 0	-24:26:34	186787	-0: 1	0:24	B9	8.60	.00	299	6	271	137 L	43	9.08
24	30.0C	293	284	18:22: 0	-24:26:34	186787	-0: 5	0:24	B9	8.60	.00	102	32	66	923 L	43	9.08
25	3.0L	575	404	18:22: 2	-30:57:25	210120	-0: 3	0:23	A0	8.47	8.07	353	16	290	633 H	780	6.87
26	3.0C	570	397	18:22: 2	-30:57:25	210120	-0: 1	0:27	A0	8.47	8.07	54	7	21	181	215	7.32
27	10.0C	578	394	18:22: 2	-30:57:25	210120	-0: 3	-0: 8	A0	8.47	8.07	116	27	30	1188	170	7.58
28	30.0C	582	387	18:22: 2	-30:57:25	210120	0: 5	1:56	A0	8.47	8.07	152	73	59	4000	190	7.46
29	3.0L	837	499	18:22: 4	-36:45:42	210121	-0: 1	0:10	B8	9.32	9.02	300	11	264	309	450	7.47
30	10.0C	841	489	18:22: 4	-36:45:42	210121	0: 1	-0:17	B8	9.32	9.02	98	31	32	1167	175	7.55
31	30.0C	846	481	18:22: 4	-36:45:42	210121	-0: 8	0:18	B8	9.32	9.02	130	84	66	3426	165	7.61
32	10.0C	860	497	18:22: 7	-37:10:41	210122	0: 2	0:18	B9	8.01	7.70	83	20	34	671 L	112	8.03
33	30.0C	865	488	18:22: 7	-37:10:41	210122	-0:13	1:39	B9	8.01	7.70	122	68	68	2534 L	120	7.96
34	10.0C	876	429	18:22:11	-33: 8:59	210123	0: 0	-0:35	A0	9.31	8.99	15	7	34	179 L	54	8.83
35	30.0C	680	421	18:22:11	-33: 8:59	210123	-0: 6	1: 7	A0	9.31	8.99	101	25	69	654 L	35	9.30
36	30.0C	680	421	18:22:13	-33: 3:58	210126	-0: 7	-3:53	A0	9.08	9.02	101	25	69	654 L	35	9.30
37	30.0C	319	298	18:22:15	-25: 2:12	210128	-0: 3	2:56	B8	7.35	7.95	113	11	73	275?	20	9.91
38	3.0L	543	396	18:22:17	-30:16:56	210128	-0: 3	2:56	B8	7.35	7.95	322	4	293	110?L	235	8.17
39	3.0L	351	329	18:22:25	-25:54: 5	NO*	-1:16	-1:26				313	13	281	346	520	7.31
40	10.0C	353	321	18:22:25	-25:54: 5	NO*	-0: 2	-0:28				64	7	32	178	60	8.71
41	30.0C	358	316	18:22:25	-25:54: 5	NO*	0:18	1:53				167	32	68	1404	60	8.71
42	3.0L	388	349	18:22:27	-26:45:28	186795	0:18	-2:13	A2	9.50	.00	317	14	288	344?H	525	7.30
43	30.0C	315	299	18:22:28	-24:57:54	186796?	0:18	-2:13				128	24	71	789?	38	9.21
44	30.0C	213	249	18:22:29	-22:43: 6	186796?	-0:39	4:19	B8	9.60	.00	95	4	72	86?L	12	10.47
45	30.0C	293	303	18:22:30	-24:33:50	210135	-0: 6	0:51	B8	6.38	.00	114	20	68	699	34	9.33
46	1.0L	709	455	18:22:36	-33:58:29	210135	-0: 4	2:20	B8	6.38	.00	265	45	295	3057 H	4500	4.95
47	3.0L	707	456	18:22:36	-33:58:29	210135	0: 1	0:31	B8	6.38	.00	427	93	850	6380 H	8500	4.26
48	.50	712	449	18:22:36	-33:58:29	210135	-0: 1	0:31	B8	6.38	.00	125	23	25	1033 H	3250	4.36
49	3.0C	703	449	18:22:36	-33:58:29	210135	-0: 5	1:12	B8	6.38	.00	280	63	23	5040	2350	4.71
50	10.0C	711	446	18:22:36	-33:58:29	210135	-0: 4	0:41	B8	6.38	.00	394	166	39	16128	2900	4.48

PAGE, CARRUTHERS, AND HECKATHORN

SAGITTARIUS EAST, R.A. 18:34 DEC. -30:24 (6 FRAMES)

OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAO NO.	Δ R.A.	Δ DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	BG	DENSITY VOLUME	CORR. V/E	UV MAG.	
51	30.0C	716	437	18:22:36	-33:58:29	210135	-0:13	1:12	B8	6.38	.00	380	338	76	32641	2850	4.50	
52	3.0L	660	439	18:22:37	-32:52:17	210136	-0:5	-0:57	A0	8.79	8.47	308	5	284	1147L	245	8.13	
53	30.0C	667	418	18:22:37	-32:52:17	210136?	-0:22	1:6	A0	8.79	8.47	90	12	64	2737L	21	9.86	
54	3.0L	175	262	18:22:38	-22:2:15	186799	-0:15	-1:40	A2	9.40	.00	279	5	251	124?			
55	3.0L	172	268	18:22:38	-22:2:15	186799	0:21	-0:37	A2	9.40	.00	283	5	254	128?	465*	7.43	
56	1.0L	611	422	18:22:39	-31:47:2	210138	-0:4	0:3	B8	7.15	.00	133	15	81	524	800	6.84	
57	3.0L	609	423	18:22:39	-31:47:2	210138	-0:2	1:33	B8	7.15	.00	398	35	286	2044	2000	5.84	
58	3.0C	605	415	18:22:39	-31:47:2	210138	-0:8	0:34	B8	7.15	.00	122	23	20	4959	545	6.31	
59	10.0C	613	413	18:22:39	-31:47:2	210138	0:2	-0:34	B8	7.15	.00	264	57	29	4559	600	6.20	
60	30.0C	617	404	18:22:39	-31:47:2	210138	-0:9	1:36	B8	7.15	.00	287	131	50	12568	870	5.80	
61	3.0L	228	292	18:22:45	-23:15:35	186802	0:20	-1:22	B9	9.40	.00	284	4	258	100?	200	8.35	
62	3.0L	412	359	18:22:51	-27:21:43	186803	0:1	1:24	B9	8.50	.00	344	14	292	490	640	7.08	
63	3.0C	407	351	18:22:51	-27:21:43	186803	-0:1	1:51	B9	8.50	.00	44	4	19	92	165	7.61	
64	10.0C	415	348	18:22:51	-27:21:43	186803	-0:4	1:17	B9	8.50	.00	98	16	36	633	105	8.10	
65	30.0C	419	342	18:22:51	-27:21:43	186803?	-0:4	1:31	B9	8.50	.00	149	55	74	2401	112	8.03	
66	30.0C	244	280	18:23:2	-23:30:45	186806?	0:13	3:1	A0	9.00	.00	221	102	68	8158	500	6.40	
67	3.0L	737	473	18:23:8	-34:39:45	210147	-0:1	-0:15	B9	9.65	9.33	312	8	283	204	370	7.68	
68	10.0C	741	462	18:23:8	-34:39:45	210147	-0:7	-0:17	B9	9.65	9.33	67	8	32	2320	84	8.35	
69	30.0C	744	458	18:23:8	-34:39:45	210147	0:13	0:54	B9	9.65	9.33	104	21	67	583	30	9.47	
70	30.0C	918	523	18:23:10	-38:25:33							114	12	65	423?	25	9.67	
71	30.0C	354	322	18:23:11	-25:53:3							125	14	70	500	27	9.58	
72	3.0L	197	281	18:23:12	-22:41:5	186810	0:2	4:8	A0	9.20	.00	285	12	255	283?	415	7.55	
73	3.0L	432	370	18:23:13	-27:50:45	186811	-0:2	0:54	B8	9.40	.00	331	25	290	775	980	6.62	
74	3.0L	429	372	18:23:13	-27:50:45	186811	0:14	3:37	B8	9.40	.00	325	27	290	810	1000	6.59	
75	30.0C	439	354	18:23:13	-27:50:45	186811	-0:10	1:59	B8	9.40	.00	92	11	67	254	41*	9.13	
76	30.0C	441	348	18:23:13	-27:50:45	186811	-0:26	1:59	B8	9.40	.00	94	12	67	272			
77	3.0L	687	456	18:23:16	-33:36:58	210153	-0:5	3:20	A2	9.46	9.17	311	7	284	160	325	7.82	
78	30.0C	697	440	18:23:16	-33:36:58	210153	-0:3	1:20	A2	9.46	9.17	92	11	68	239	20	9.91	
79	3.0L	396	360	18:23:27	-27:2:37	NO*	0:1	0:52				317	6	290	137	280	7.98	
80	10.0C	400	350	18:23:27	-27:2:37	NO*	-0:1	-0:52				55	7	31	155	59	8.73	
81	1.0L	232	293	18:23:30	-23:22:34	186815	-0:19	-0:12	B8*	9.10	.00	111	11	75	288	620	7.12	
82	3.0L	232	296	18:23:30	-23:22:34	186815/	-0:16	-0:18	B8*	9.10	.00	344	46	261	1780	1800	5.95	
83	10.0C	235	297	18:23:30	-23:22:34	186815	-0:5	-0:31	B8*	9.10	.00	124	40	32	2077	280	7.03	
84	30.0C	297	306	18:23:38	-24:39:33							190	13	70	798?	37	9.24	
85	3.0L	235	300	18:23:39	-23:27:58	186822	-0:10	-0:11	B9	8.40	.00	344	47	261	1820	1850	5.92	
86	3.0C	231	293	18:23:39	-23:27:58	186822	-0:4	-1:45	B9	8.40	.00	66	30	20	899	510	6.38	
87	10.0C	239	290	18:23:39	-23:27:58	186822	-0:7	-1:2	B9	8.40	.00	146	43	31	2491	320	6.89	
88	30.0C	244	280	18:23:39	-23:27:58	186822/	-0:23	0:14	B9	8.40	.00	221	102	68	8158	500	6.40	
89	3.0L	857	526	18:23:45	-37:19:39	210165	0:4	0:6	A0	10.20	9.78	291	6	261	150	275	8.00	
90	10.0C	861	515	18:23:45	-37:19:39	210165	-0:2	-1:4	A0	10.20	9.78	77	19	33	591	106	8.09	
91	30.0C	865	510	18:23:45	-37:19:39	210165	0:13	1:45	A0	10.20	9.78	114	62	66	2052	99	8.17	
92	30.0C	155	246	18:23:50	-21:33:5	186824	-0:24	0:2	B5	9.20	.00	95	36	67	874?	43	9.08	
93	3.0L	706	470	18:23:51	-34:4:11	210168	0:2	2:8	B9	9.37	9.70	313	13	278	374?	535	7.28	
94	10.0C	711	455	18:23:51	-34:4:11	210168?	-0:30	1:59	B9	9.37	9.70	93	11	50	367	74	8.48	
95	10.0C	508	392	18:23:53	-29:32:21	186825	0:2	0:56	A0	8.50	.00	73	12	30	375	L	82	8.37
96	30.0C	512	395	18:23:53	-29:32:21	186825	0:2	2:13	A0	8.50	.00	109	40	63	1289	L	58	8.75
97	3.0L	373	356	18:23:54	-26:37:14	186826	-0:9	4:50	A2	9.20	.00	325	15	286	405	H	580	7.19
98	10.0C	376	346	18:23:54	-26:37:14	186826	-0:6	3:54	A2	9.20	.00	73	10	34	291		73	8.50
99	10.0C	915	540	18:23:56	-38:28:56	210169	0:12	-3:19	B9	8.88	8.62	90	34	32	13140H	235	7.22	
100	1.0L	799	504	18:24:1	-36:2:50	210170	-0:4	-0:55	B9	6.83	.00	121	15	81	427	730	6.94	

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SAGITTARIUS EAST. R.A. 18:34 DEC. -30:24 (6 FRAMES)

OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	S.A.O. NO.	Δ R.A.	Δ DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	B.G.	DENSITY VOLUME	CORR. V/E	UV MAG.
101	3.0L	798	506	18:24	1 -36:2:50	210170	0:2	-1:1	89	6.83	.00	372	46	272	2270	2300	5.69
102	3.0C	793	497	18:24	1 -36:2:50	210170	-0:3	-0:37	89	6.83	.00	114	25	22	1156	570	6.26
103	10.0C	801	494	18:24	1 -36:2:50	210170	-0:2	-1:3	89	6.83	.00	282	55	32	51330	667	6.09
104	30.0C	803	491	18:24	1 -36:2:50	210170?	0:25	0:55	89	6.83	.00	323	143	66	14000	1050	5.59
105	3.0L	838	521	18:24	2 -36:5:5	210171	0:0	-1:44	A0	8.44	8.10	302	8	264	230?	370	7.68
106	3.0C	833	513	18:24	2 -36:5:5	210171	-0:5	-1:19	A0	8.44	8.10	52	9	20	229	250	7.16
107	10.0C	841	510	18:24	2 -36:5:5	210171	0:1	0:37	A0	8.44	8.10	118	34	34	1512	210	7.35
108	30.0C	846	501	18:24	2 -36:5:5	210171	-0:14	1:35	A0	8.44	8.10	151	93	66	4547	240	7.20
109	10.0C	355	338	18:24	8 -26:5:9	NO	-0:22	0:0				79	9	32	284?	72	8.51
110	30.0C	357	339	18:24	8 -26:5:9	NO	0:23	-0:1				149	15	69	639	32	9.40
111	3.0L	293	334	18:24	9 -24:51:15	186828	0:13	2:12	88	9.20	.00	295	10	268	222?	380	7.65
112	3.0L	360	360	18:24	29 -26:20:40	186834	0:1	2:2	A0	9.30	.00	310	7	281	176?	330	7.80
113	3.0L	374	363	18:24	36 -26:39:57	186837	-0:16	3:28	A5	6.23	.00	311	4	282	106?	220	8.25
114	3.0L	904	555	18:24	39 -38:23:19	210188	0:8	-0:51	89	7.90	7.44	320	43	246	1717 H	1650	6.05
115	3.0C	900	547	18:24	39 -38:23:19	210188	0:6	-2:5	89	7.90	7.44	71	27	21	902 H	505	6.39
116	10.0C	908	544	18:24	39 -38:23:19	210188	0:9	-2:25	89	7.90	7.44	201	78	32	52190H	618	6.17
117	30.0C	913	535	18:24	39 -38:23:19	210188	-0:7	-1:26	89	7.90	7.44	225	190	65	14019 H	1050	5.59
118	30.0C	981	562	18:24	40 -39:48:3	210189	0:5	-2:32	A0	9.10	8.75	89	11	67	228?	20	9.91
119	3.0L	793	512	18:24	45 -36:0:14	210191	0:3	-0:14	89	7.73	.00	349	28	268	1278	1250	6.35
120	3.0C	788	503	18:24	45 -36:0:14	210191	-0:8	0:35	89	7.73	.00	74	16	20	587	360	6.76
121	10.0C	797	500	18:24	45 -36:0:14	210191	-0:9	-1:2	89	7.73	.00	177	46	32	31360	393	6.66
122	30.0C	803	491	18:24	53 -33:22:51	210193	-0:20	-1:41	89	7.73	.00	323	143	66	14000 H	1050	5.59
123	3.0L	674	470	18:24	53 -33:22:51	210193	-0:4	-0:50	89	8.60	8.32	330	20	282	591	750	6.91
124	3.0C	669	462	18:24	53 -33:22:51	210193	-0:8	-0:23	89	8.60	8.32	51	4	20	110 L	180	7.51
125	10.0C	677	459	18:24	53 -33:22:51	210193	-0:2	-1:18	89	8.60	8.32	104	23	31	958	145	7.75
126	30.0C	681	451	18:24	54 -32:30:7	210194	-0:9	0:22	89	8.60	8.32	140	68	66	2987	140	7.79
127	1.0L	634	456	18:24	54 -32:30:7	210194	-0:4	-0:10	A0	7.70	7.29	110	5	81	122	440	7.49
128	3.0L	634	456	18:24	54 -32:30:7	210194	-0:4	-0:10	A0	7.70	7.29	358	31	274	1344 H	1350	6.27
129	3.0C	629	448	18:24	54 -32:30:7	210194	-0:8	0:17	A0	7.70	7.29	176	14	20	498	325	6.87
130	10.0C	637	446	18:24	54 -32:30:7	210194	-0:1	0:33	A0	7.70	7.29	175	40	29	2474	315	6.90
131	30.0C	641	438	18:24	54 -32:30:7	210194	-0:1	0:33	A0	7.70	7.29	221	98	62	6968	405	6.63
132	3.0L	379	372	18:24	58 -26:47:20	186843/	-0:2	0:0	A3	6.28	.00	325	21	285	602	790	6.85
133	10.0C	382	362	18:24	58 -26:47:20	186843/	-0:2	0:0	A3	6.28	.00	66	10	32	272 L	73	8.50
134	30.0C	386	356	18:24	58 -26:47:20	186843/	0:10	1:7	A3	6.28	.00	107	25	70	762 L	52	8.87
135	3.0L	927	569	18:24	59 -33:1:38	210197?	0:19	5:8	A2	5.55	.00	288	32	234	1700	1500	6.15
136	3.0L	280	336	18:25	0 -24:35:40	186844	-0:3	1:9	A0	8.50	.00	300	15	265	382?	1350*	6.27
137	3.0L	338	338	18:25	0 -24:35:40	186844	0:2	-3:13	A0	8.50	.00	297	26	262	718?	40*	9.16
138	30.0C	290	315	18:25	0 -24:35:40	186844?	-0:25	-0:29	A0	8.50	.00	91	17	67	377?	790	6.85
139	30.0C	287	321	18:25	0 -24:35:40	186844	0:7	1:3	A0	8.50	.00	90	6	66	136?	73	8.50
140	3.0L	379	372	18:25	1 -26:48:1	186845/	-0:5	0:42	A0	9.00	.00	325	21	286	602 H	2500	5.59
141	10.0C	382	362	18:25	1 -26:48:1	186845/	-0:3	1:22	A0	9.00	.00	66	10	32	272 L	72	8.51
142	30.0C	386	356	18:25	1 -26:48:1	186845/	0:8	1:48	A0	9.00	.00	107	25	70	762 L	52	8.87
143	3.0L	353	363	18:25	2 -26:12:48	186846	-0:2	1:14	A0*	8.70	.00	352	59	275	2216 H	2500	5.59
144	10.0C	356	353	18:25	2 -26:12:48	186846	-0:3	0:42	A0*	8.70	.00	73	15	33	419	70	8.55
145	30.0C	359	349	18:25	2 -26:12:48	186846	0:15	1:55	A0*	8.70	.00	117	24	24	799 L	70	8.55
146	3.0L	925	565	18:25	7 -38:53:45	210200	-0:9	1:24	89	7.60	.00	259	14	217	383 L	1850*	5.92
147	3.0L	927	569	18:25	7 -38:53:45	210200/	0:11	-2:45	89	7.60	.00	288	32	234	1700 H	280	7.03
148	3.0C	922	560	18:25	7 -38:53:45	210200/	0:1	-1:53	89	7.60	.00	50	14	22	339	424	6.58
149	10.0C	930	558	18:25	7 -38:53:45	210200	0:8	-2:25	89	7.60	.00	153	54	34	34490	54	8.83
150	30.0C	115	251	18:25	8 -20:50:35	186850	-0:1	0:29	A	8.90	.00	94	51	63	1266?	54	

PAGE, CARRUTHERS, AND HECKATHORN

SAGITTARIUS EAST, R.A. 18:34 DEC. -30:24 (6 FRAMES)

OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	S.A.O. NO.	A. R.A.	A. DEC.	SPEC. TYPE	V. MAG.	P. MAG.	PEAK DEN.	NO. OF POINTS	B.G.	DENSITY VOLUME	CORR. V/E	UV MAG.
151	3.0L	180	296	18:25:10	-22:26:46	186853	-0.15	2:51	A0	9.00	.00	273	6	245	151?	265	8.04
152	3.0L	199	310	18:25:25	-22:51:8	186856	0:3	-0:17	B8	9.10	.00	273	5	247	112?L	225	8.22
153	30.0C	698	466	18:25:38	-33:48:55							90	12	67	247?	21	9.86
154	3.0L	397	391	18:25:46	-27:17:40	186861	0:18	1:7	B8	8.50	.00	333	46	284	1560 H	1700	6.02
155	10.0C	401	378	18:25:46	-27:17:40	186861	0:0	0:39	B8	8.50	.00	60	8	31	199 L	65	8.63
156	30.0C	407	366	18:25:46	-27:17:40	186861?	-0:23	2:23	B8	8.50	.00	100	26	69	668 L	35	9.30
157	1.0L	925	573	18:25:49	-38:53:4	210213	0:3	-1:59	B8	6.65	.00	100	9	76	200 L	827	6.80
158	3.0L	924	574	18:25:49	-38:53:4	210213	0:6	-1:50	B8	6.65	.00	321	62	234	4782 H	5000	4.84
159	3.0C	920	567	18:25:49	-38:53:4	210213	0:3	-3:6	B8	6.65	.00	94	42	22	1662	810	5.87
160	10.0C	928	564	18:25:49	-38:53:4	210213	0:5	-3:24	B8	6.65	.00	281	87	34	80340H	981	5.66
161	30.0C	933	555	18:25:49	-38:53:4	210213	-0:2	-1:40	B8	6.65	.00	325	244	73	23239 H	1980	4.90
162	3.0L	366	380	18:25:50	-26:36:53	186863	0:13	1:42	A0	6.46	.00	311	25	285	559 L	755	6.90
163	10.0C	371	368	18:25:50	-26:36:53	186863	0:1	0:50	A0	6.46	.00	75	16	32	493 L	95	8.21
164	30.0C	378	366	18:25:50	-26:36:53	186863/	0:22	-3:31	A0	6.46	.00	118	58	67	1950 L	94	8.22
165	30.0C	375	362	18:25:54	-26:35:45							121	54	67	1820	85	8.33
166	3.0L	724	499	18:26:3	-34:34:11	210218	-0:7	-0:54	B9	8.96	8.61	324	19	276	596 H	740	6.92
167	10.0C	727	489	18:26:3	-34:34:11	210218	-0:5	-1:21	B9	8.96	8.61	92	20	32	759	120	7.96
168	30.0C	731	481	18:26:3	-34:34:11	210218	-0:12	0:20	B9	8.96	8.61	127	69	63	2787	130	7.87
169	30.0C	786	505	18:26:7	-33:48:3	210221	0:9	0:47	A0	9.21	9.00	86	12	61	271 L	22	9.81
170	3.0L	890	563	18:26:15	-38:7:53	210222	-0:13	-0:24	A2	9.59	9.62	252	12	210	417 H	440	7.49
171	3.0L	596	453	18:26:15	-31:29:21	NO*	-0:10	-0:57				296	14	265	354	500	7.35
172	30.0C	591	439	18:26:15	-31:29:21	NO*	0:11	0:58				83	19	55	463	27	9.58
173	1.0L	308	360	18:26:16	-25:17:24	186873	-0:3	-0:22	B2	6.23	.00	261	39	78	2650	3600	5.20
174	3.0L	308	361	18:26:16	-25:17:24	186873	-0:7	-1:12	B2	6.23	.00	423	101	278	6620	9200	4.17
175	.5C	311	354	18:26:16	-25:17:24	186873	0:4	0:45	B2	6.23	.00	112	23	23	926	2950	4.46
176	3.0C	303	354	18:26:16	-25:17:24	186873	-0:3	-0:5	B2	6.23	.00	286	54	22	4637 L	2000	4.89
177	10.0C	311	351	18:26:16	-25:17:24	186873	-0:6	-0:32	B2	6.23	.00	386	121	35	12683 L	2150	4.81
178	30.0C	314	346	18:26:16	-25:17:24	186873	0:7	1:6	B2	6.23	.00	377	301	70	31002 L	2550	4.62
179	3.0L	640	476	18:26:18	-32:48:57	210224?	0:8	3:37	A0	8.40	8.16	298	19	273	387?	565	7.22
180	30.0C	652	453	18:26:18	-32:48:57	210224?	-0:30	0:31	A0	8.40	8.16	81	5	59	101?L	32*	9.40
181	30.0C	650	459	18:26:18	-32:48:57	210224	0:8	0:25	A0	8.40	8.16	82	6	58	137?L	32*	9.40
182	1.0L	656	491	18:26:19	-33:58:4	210226	-0:4	-0:4	B9	7.10	.00	141	17	83	619 H	910	6.70
183	3.0L	695	493	18:26:19	-33:58:4	210226	0:1	-0:8	B9	7.10	.00	388	57	283	2783 H	2800	5.47
184	3.0C	690	485	18:26:19	-33:58:4	210226	-0:3	0:17	B9	7.10	.00	129	27	22	1348 H	640	6.13
185	10.0C	698	482	18:26:19	-33:58:4	210226	-0:3	-0:10	B9	7.10	.00	289	61	35	3383 H	735	5.98
186	30.0C	703	473	18:26:19	-33:58:4	210226	-0:12	0:19	B9	7.10	.00	309	149	70	13947 H	1070	5.57
187	3.0L	618	466	18:26:20	-32:15:20	NO	-0:7	0:19				325	23	268	815	910	6.70
188	3.0C	613	459	18:26:20	-32:15:20	NO	-0:5	0:21				50	5	19	128	195	7.43
189	10.0C	621	457	18:26:20	-32:15:20	NO	0:6	-0:58				104	26	28	1143	170	7.58
190	30.0C	625	450	18:26:20	-32:15:20	NO	0:5	0:17				142	68	57	3381	155	7.68
191	1.0L	675	488	18:26:24	-33:32:31	210228/	0:15	0:34	A0	8.72	8.36	133	15	82	507 H	790	6.85
192	3.0L	674	490	18:26:24	-33:32:31	210228/	0:20	0:31	A0	8.72	8.36	378	45	275	2262 H	2300	5.69
193	3.0C	669	482	18:26:24	-33:32:31	210228/	0:16	0:56	A0	8.72	8.36	116	24	20	1136?H	570	6.26
194	10.0C	677	479	18:26:24	-33:32:31	210228/	0:16	0:28	A0	8.72	8.36	252	59	34	4599 H	620	6.17
195	30.0C	682	470	18:26:24	-33:32:31	210228/	0:2	1:21	A0	8.72	8.36	280	132	66	11843 H	860	5.81
196	3.0L	143	301	18:26:27	-21:40:12	186876	0:2	-4:3	A0	8.90	.00	256	4	232	91	180	8.46
197	10.0C	145	287	18:26:27	-21:40:12	186876	-0:11	-1:4	A0	8.90	.00	67	21	30	593	110	8.05
198	30.0C	149	282	18:26:27	-21:40:12	186876	-0:0	-0:38	A0	8.90	.00	122	92	61	3718 H	180	7.51
199	3.0L	370	386	18:26:29	-26:42:16	186878	-0:7	0:17	B9	9.30	.00	334	45	280	1442 H	1550	6.12
200	10.0C	373	376	18:26:29	-26:42:16	186878	-0:2	-0:37	B9	9.30	.00	81	15	33	492	93	8.24

# NRL REPORT 8487

SAGITTARIUS EAST, R.A. 18:34 DEC. -30:24 (6 FRAMES)

OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAO NO.	Δ R.A.	Δ DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	BG	DENSITY VOLUME	CORR. V/E	UV MAG.
201	30.0C	378	366	18:26:29	-26:42:16	186878/	-0:18	1:52	89	9.30	.00	118	58	67	1950	94	8.22
202	3.0L	318	370	18:26:38	-25:34:45	186882	0:1	0:37	89	8.90	.00	299	13	273	272	440	7.49
203	10.0C	322	360	18:26:38	-25:34:45	186882	0:0	0:7	89	8.90	.00	67	4	39	102 L	48	8.96
204	30.0C	326	353	18:26:38	-25:34:45	186882	0:1	1:23	89	8.90	.00	113	26	79	702 L	35	9.30
205	1.0L	675	488	18:26:43	-33:31:47	210234/	-0:5	-0:10	89	7.64	.00	133	15	82	507 H	790	6.85
206	3.0C	674	490	18:26:43	-33:31:47	210234/	0:1	0:13	89	7.64	.00	378	45	275	2262 H	2300	5.69
207	3.0C	669	482	18:26:43	-33:31:47	210234/	-0:1	0:12	89	7.64	.00	116	24	20	1136?	570	6.26
208	10.0C	677	479	18:26:43	-33:31:47	210234/	-0:4	0:16	89	7.64	.00	252	59	34	4599 H	620	6.17
209	30.0C	682	470	18:26:43	-33:31:47	210234/	-0:18	0:37	89	7.64	.00	280	132	66	11843	860	5.81
210	3.0L	656	486	18:26:44	-33:4:57	210235/	0:7	-3:35	A3	7.22	.00	311	19	274	478	640	7.08
211	10.0C	659	476	18:26:44	-33:4:57	210235/	0:14	-4:26	A3	7.22	.00	86	20	30	713	115	8.00
212	30.0C	662	472	18:26:44	-33:4:57	210235/	0:33	3:15	A3	7.22	.00	123	55	66	1956	92	8.25
213	3.0L	109	289	18:26:52	-20:59:11	186885	-0:13	-1:28	A0	8.20	.00	257	6	234	1302L	235	8.17
214	3.0L	656	486	18:26:57	-33:9:2	210240/	-0:6	0:31	A0	8.38	.00	311	19	274	478	640	7.08
215	10.0C	659	476	18:26:57	-33:9:2	210240/	0:1	-0:21	A0	8.38	.00	86	20	30	713	115	8.00
216	30.0C	662	472	18:26:57	-33:9:2	210240/	0:20	0:51	A0	8.38	.00	123	55	66	1956	92	8.25
217	30.0C	930	533	18:27:14	-36:49:41	210243/	0:12	-0:34	88	9.13	.00	88	15	63	3452L	24	9.71
218	30.0C	582	445	18:27:17	-31:20:7	NO	-0:3	0:51	A0	8.80	.00	313	10	283	511?	30	9.47
219	3.0L	378	399	18:27:20	-26:57:40	186890	-0:3	0:51	A0	8.80	.00	313	10	283	511?	30	9.47
220	3.0L	252	355	18:27:21	-24:5:53	186891	0:4	-4:29	A0	8.36	.00	282	12	256	243?	390	7.59
221	3.0L	143	312	18:27:34	-21:47:16	186898	-0:9	-1:22	89	8.80	.00	267	7	235	182	290	7.94
222	10.0C	146	302	18:27:34	-21:47:16	186898	-0:10	-1:53	89	8.80	.00	57	11	30	259 L	73	8.50
223	30.0C	150	296	18:27:34	-21:47:16	186898	-0:3	0:6	89	8.80	.00	103	61	65	1755	82	8.37
224	1.0L	775	537	18:27:37	-35:54:15	210254/	0:14	4:21	A2	8.83	.00	127	7	80	226 H	550	7.25
225	30.0C	830	533	18:27:41	-36:45:19	210255/	-0:15	-4:57	A5	8.84	.00	88	15	63	3452L	24	9.71
226	3.0L	393	402	18:27:43	-27:2:16	186902	-0:20	-1:43	A2	9.50	.00	318	6	277	1902H	1440*	6.20
227	3.0L	382	404	18:27:43	-27:2:16	186902	-0:7	-1:21	A2	9.50	.00	317	28	273	3302H	490	7.37
228	3.0L	684	493	18:27:48	-33:1:27	210257	0:7	4:20	A3	5.44	.00	296	14	270	3302L	490	7.37
229	1.0L	285	372	18:27:57	-24:55:39	186906	0:1	0:13	89	8.10	.00	102	6	76	140	470	7.42
230	3.0L	295	373	18:27:57	-24:55:39	186906	-0:3	0:36	89	8.10	.00	357	44	262	1274 H	1300	6.31
231	3.0C	280	366	18:27:57	-24:55:39	186906	-0:0	0:40	89	8.10	.00	82	15	21	567	350	6.79
232	10.0C	288	363	18:27:57	-24:55:39	186906	-0:4	-1:5	89	8.10	.00	175	39	34	2389	310	6.92
233	30.0C	293	354	18:27:57	-24:55:39	186906	-0:14	0:59	89	8.10	.00	236	100	74	7514	480	6.44
234	1.0L	515	457	18:28:39	-30:6:21	210272	-0:3	0:48	85	8.50	.00	112	7	78	181 L	500	7.35
235	3.0L	514	458	18:28:39	-30:6:21	210272	-0:5	1:11	85	8.50	.00	352	24	272	1043	1070	6.52
236	3.0C	509	451	18:28:39	-30:6:21	210272	-0:3	1:11	85	8.50	.00	85	15	19	572	350	6.79
237	10.0C	517	448	18:28:39	-30:6:21	210272	-0:4	0:44	85	8.50	.00	191	39	29	2508	320	6.89
238	30.0C	521	442	18:28:39	-30:6:21	210272	0:7	1:8	85	8.50	.00	212	108	56	7554	430	6.56
239	3.0C	832	564	18:28:49	-37:14:56	210276	0:1	-0:28	89	7.90	.00	47	4	20	95 L	170	7.58
240	10.0C	840	561	18:28:49	-37:14:56	210276	0:3	0:48	89	7.90	.00	104	31	34	1231	175	7.55
241	30.0C	845	552	18:28:49	-37:14:56	210276	-0:12	0:6	89	7.90	.00	136	67	66	3076	145	7.75
242	10.0C	959	608	18:28:52	-33:44:25	210277	0:16	-3:56	A2	5.25	.00	74	19	37	529 L	95	8.21
243	30.0C	962	603	18:28:53	-33:44:25	210277?	0:28	-2:31	A2	5.25	.00	112	69	67	2186 L	110	8.05
244	10.0C	473	438	18:28:54	-29:8:56	186924	0:2	0:22	88	9.00	.00	60	8	27	224 L	69	8.56
245	30.0C	478	429	18:28:54	-29:8:56	186924	-0:6	0:47	88	9.00	.00	92	33	59	861 L	43	9.08
246	3.0L	603	492	18:28:55	-32:10:51	210279	0:8	3:28	A0	9.35	.00	281	5	256	115?	230	8.20
247	3.0L	626	499	18:29:2	-32:37:37	210281	-0:4	-0:4	89	8.48	.00	304	32	262	826 H	950	6.65
248	10.0C	629	489	18:29:2	-32:37:37	210281	0:3	-0:55	89	8.48	.00	66	11	28	319 L	77	8.44
249	30.0C	632	484	18:29:2	-32:37:37	210281	0:15	0:41	89	8.48	.00	101	47	54	1572 L	71	8.53
250	1.0L	386	421	18:29:8	-27:15:30	186937/	0:2	0:37	88	7.80	.00	113	8	79	215 L	535	7.28

PAGE, CARRUTHERS, AND HECKATHORN

SAGITTARIUS EAST, R.A. 18:34 DEC. -30:24 (6 FRAMES)

OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	S.A.O. NO.	Δ R.A.	Δ DEC.	SPEC. TYPE	V. MAG.	P. MAG.	PEAK DEN.	NO. OF POINTS	B.G.	DENSITY VOLUME	CORR. V/E	UV MAG.
251	3.0L	385	423	18:29:8	-27:15:30	186937/	0:5	0:36	BB	7.80	.00	360	19	280	792	890	6.72
252	3.0L	380	415	18:29:8	-27:15:30	186937/	0:3	0:59	BB	7.80	.00	88	16	20	615 L	370	6.73
253	10.0C	388	413	18:29:8	-27:15:30	186937/	0:5	0:9	BB	7.80	.00	190	41	33	2637	410	6.62
254	30.0C	393	403	18:29:8	-27:15:30	186937/	-0:13	1:25	BB	7.80	.00	235	104	68	8058	500	6.40
255	3.0L	163	343	18:29:26	-22:25:36	186941/	-0:13	2:26	A0	9.10	.00	259	10	236	202?	325	7.82
256	3.0L	163	343	18:29:29	-22:19:49	186942/	-0:16	-3:21	BB	8.80	.00	259	10	236	202?L	325	7.82
257	30.0C	168	328	18:29:29	-22:19:49	186942/	0:2	-1:24	BB	8.80	.00	86	12	65	2457L	22	9.81
258	1.0L	386	421	18:29:30	-27:13:36	186943/	-0:21	-1:16	A3	8.80	.00	113	8	79	215 H	535	7.28
259	3.0L	385	423	18:29:30	-27:13:36	186943/	-0:17	-1:17	A3	8.80	.00	360	19	280	792 H	1060*	6.53
260	3.0L	382	427	18:29:30	-27:13:36	186943/	0:3	0:7	A3	8.80	.00	294	4	269	91?		
261	3.0C	380	415	18:29:30	-27:13:36	186943/	-0:20	-0:55	A3	8.80	.00	88	16	20	615 H	370	6.73
262	10.0C	388	413	18:29:30	-27:13:36	186943/	-0:17	-1:45	A3	8.80	.00	190	41	33	2637 H	410	6.62
263	3.0L	232	375	18:29:47	-23:55:1	186950	-0:5	-0:54	B9	9.30	.00	282	12	247	334?	440	7.49
264	30.0C	287	360	18:29:47	-23:55:1	186950	0:6	0:17	B9	9.30	.00	92	4	70	847L	13	10.38
265	3.0L	287	396	18:29:48	-25:7:34	186951	-0:2	0:8	B9	8.80	.00	288	5	258	133 L	250	8.11
266	30.0C	293	382	18:29:48	-25:7:34	186951	0:15	0:55	B9	8.80	.00	90	10	66	2247L	20	9.91
267	3.0L	360	423	18:29:53	-26:44:42						.00	306	39	265	1207?	1250	6.35
268	1.0L	905	609	18:29:53	-38:45:28	210293/	0:9	-1:44	A	6.60	.00	203	77	73	4510 H	7000	4.47
269	3.0L	904	611	18:29:55	-38:45:28	210293/	0:17	-1:48	A	6.60	.00	434	143	236	13394 H	25000	3.08
270	.5C	908	603	18:29:55	-38:45:28	210293/	0:12	-2:5	A	6.60	.00	101	37	25	1514 H	4350	4.04
271	3.0C	900	603	18:29:55	-38:45:28	210293/	0:8	-2:42	A	6.60	.00	306	91	22	8962 H	3300	4.34
272	10.0C	907	600	18:29:55	-38:45:28	210293/	0:12	-1:47	A	6.60	.00	433	180	37	27070 H	5000	3.89
273	30.0C	912	593	18:29:55	-38:45:28	210293/	0:9	-1:40	A	6.60	.00	398	317	79	45363 H	4000	4.13
274	1.0L	905	609	18:29:56	-38:45:51	210294/	0:16	-1:25	BB	6.00	.00	203	77	74	4433 H	7000	4.47
275	3.0L	904	611	18:29:56	-38:45:51	210294/	0:12	-1:42	BB	6.00	.00	434	143	236	13394 H	25000	3.08
276	.5C	908	603	18:29:56	-38:45:51	210294/	0:12	-1:42	BB	6.00	.00	101	37	25	1514	4350	4.04
277	3.0C	900	603	18:29:56	-38:45:51	210294/	0:8	-2:19	BB	6.00	.00	306	91	22	8962	3300	4.34
278	10.0C	907	600	18:29:56	-38:45:51	210294/	0:12	-1:23	BB	6.00	.00	433	180	37	27070	5000	3.89
279	30.0C	912	593	18:29:56	-38:45:51	210294/	0:9	-1:17	BB	6.00	.00	398	317	79	45363	4000	4.13
280	1.0L	905	609	18:29:57	-38:45:51	210295/	0:9	-1:22	BB	5.95	.00	203	74	76	4225 H	7000	4.47
281	3.0L	904	611	18:29:57	-38:45:51	210295/	0:15	-1:25	BB	5.95	.00	434	143	236	13394 H	25000	3.08
282	.5C	908	603	18:29:57	-38:45:51	210295/	0:12	-1:42	BB	5.95	.00	101	37	25	1514	4350	4.04
283	3.0C	900	603	18:29:57	-38:45:51	210295/	0:8	-2:20	BB	5.95	.00	306	91	22	8962	3300	4.34
284	10.0C	907	600	18:29:57	-38:45:51	210295/	0:12	-1:24	BB	5.95	.00	433	180	37	27070	5000	3.89
285	30.0C	912	593	18:29:57	-38:45:51	210295/	0:9	-1:18	BB	5.95	.00	398	317	79	45363	4000	4.13
286	1.0L	905	609	18:29:58	-38:45:29	210296/	0:9	-1:43	BB	6.55	.00	203	74	76	4225 H	7000	4.47
287	3.0L	904	611	18:29:58	-38:45:29	210296/	0:14	-1:47	BB	6.55	.00	434	143	236	13394 H	25000	3.08
288	.5C	908	603	18:29:58	-38:45:29	210296/	0:12	-2:6	BB	6.55	.00	101	37	25	1514 H	4350	4.04
289	3.0C	900	603	18:29:58	-38:45:29	210296/	0:8	-2:41	BB	6.55	.00	306	91	22	8962 H	3300	4.34
290	10.0C	907	600	18:29:58	-38:45:29	210296/	0:12	-1:45	BB	6.55	.00	433	180	37	27070 H	5000	3.89
291	30.0C	912	593	18:29:58	-38:45:29	210296/	0:9	-1:39	BB	6.55	.00	398	317	79	45363 H	4000	4.13
292	3.0L	509	474	18:30:8	-30:6:7	210298	0:0	0:1	BB	8.51	8.16	293	9	260	399	510	7.33
293	10.0C	512	464	18:30:8	-30:6:7	210298	0:3	0:1	BB	8.51	8.16	52	4	26	957L	48	8.96
294	30.0C	517	455	18:30:8	-30:6:7	210298	-0:11	0:37	BB	8.51	8.16	84	30	53	771 L	40	9.16
295	1.0L	242	382	18:30:10	-24:8:51	186959	-0:5	-0:53	BB	6.75	.00	183	36	74	1730 L	2300	5.69
296	3.0L	241	384	18:30:10	-24:8:51	186959/	-0:3	-0:53	BB	6.75	.00	405	68	260	4830	5400	4.75
297	.5C	245	377	18:30:10	-24:8:51	186959	0:8	-0:45	BB	6.75	.00	68	13	23	412 L	1780	5.01
298	3.0C	237	376	18:30:10	-24:8:51	186959	-0:7	-1:47	BB	6.75	.00	219	58	20	3716 L	1630	5.11
299	10.0C	245	374	18:30:10	-24:8:51	186959	-0:3	-1:21	BB	6.75	.00	352	111	34	11131 L	1920	4.93
300	30.0C	248	370	18:30:10	-24:8:51	186959/	0:14	-0:6	BB	6.75	.00	371	231	67	27153 L	2200	4.78



NRL REPORT 8487

SAGITTARIUS EAST, R.A. 18:34 DEC. -30:24 (6 FRAMES)

OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAO NO.	A R.A.	A DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	BG	DENSITY VOLUME	CORR. V/E	UV MAG.
301	1.0L	813	577	18:30:13	-36:48:16	210302/	0: 6	-1:56	89	8.78	8.46	113	20	76	563 H	1437	6.20
302	3.0L	813	578	18:30:13	-36:48:16	210302/	0: 5	-2:46	89	8.78	8.46	371	52	261	50007H	5050	4.83
303	3.0C	808	570	18:30:13	-36:48:16	210302/	0: 5	-2:50	89	8.78	8.46	115	34	21	1572 H	750	5.96
304	10.0C	816	568	18:30:13	-36:48:16	210302/	0:13	-3:32	89	8.78	8.46	317	78	33	7183 H	1040	5.60
305	30.0C	820	561	18:30:13	-36:48:16	210302/	0:12	-2:17	89	8.78	8.46	296	154	63	15809 H	1150	5.49
306	1.0L	813	577	18:30:16	-36:50:38	210304/	0: 3	0:26	89	8.04	7.60	113	20	76	563 H	1437	6.20
307	3.0L	813	578	18:30:16	-36:50:38	210304/	0: 2	-0:23	89	8.04	7.60	371	52	261	50007H	5050	4.83
308	3.0C	808	570	18:30:16	-36:50:38	210304/	0:10	-0:27	89	8.04	7.60	115	34	21	1572 H	750	5.96
309	10.0C	816	568	18:30:16	-36:50:38	210304/	0: 8	0: 5	89	8.04	7.60	317	78	33	7183 H	1040	5.60
310	30.0C	820	561	18:30:16	-36:50:38	210304/	0: 8	0: 5	89	8.04	7.60	296	154	63	15809 H	1150	5.49
311	3.0L	215	374	18:30:17	-23:33:39	186962	-0: 9	-1:48	88	8.70	.00	271	5	242	1337L	230	8.20
312	10.0C	217	365	18:30:17	-23:33:39	186962	0: 2	-1:52	88	8.70	.00	68	15	30	427 L	87	8.31
313	30.0C	223	355	18:30:17	-23:33:39	186962	-0:15	-0:36	88	8.70	.00	109	53	64	17677L	79	8.41
314	3.0L	825	582	18:30:18	-37: 7:18	210305	-0: 1	0:30	89	8.95	8.75	286	42	226	16132H	1500	6.15
315	10.0C	829	573	18:30:18	-37: 7:18	210305	0: 6	-1:27	89	8.95	8.75	83	16	36	532	95	8.21
316	30.0C	833	566	18:30:18	-37: 7:18	210305	0: 6	0:58	89	8.95	8.75	116	51	70	1679	77	8.44
317	3.0L	392	441	18:30:28	-27:31:35	186968	0: 1	-0: 9	88	8.50	.00	318	39	272	1078 H	1200	6.40
318	10.0C	395	431	18:30:28	-27:31:35	186968	0: 1	-0: 9	88	8.50	.00	70	15	29	444 L	89	8.28
319	30.0C	400	422	18:30:28	-27:31:35	186968	-0: 4	-1:28	88	8.50	.00	109	43	64	1402 L	63	8.66
320	3.0L	300	411	18:30:39	-25:29:15	186975	-0: 5	-0:25	89	8.30	.00	310	47	254	1577 H	1570	6.10
321	3.0C	291	407	18:30:39	-25:29:15	186975	0:26	0:24	89	8.30	.00	63	12	19	350	280	7.03
322	10.0C	303	402	18:30:39	-25:29:15	186975	0: 2	0: 4	89	8.30	.00	84	21	30	7830	112	9.03
323	30.0C	303	397	18:30:39	-25:29:15	186975	0:13	9:12	89	8.30	.00	180	52	65	2700	120	7.96
324	1.0L	640	520	18:30:40	-33: 3:19	210312/	-0: 2	0:49	83	5.38	.00	388	111	81	9234	20600	3.29
325	3.0L	639	521	18:30:40	-33: 3:19	210312/	-0: 2	1:11	83	5.38	.00	456	325	272	27550	43500	2.48
326	.5C	643	514	18:30:40	-33: 3:19	210312/	0: 5	0:19	83	5.38	.00	292	60	25	4800	12800	2.86
327	10.0C	635	514	18:30:40	-33: 3:19	210312/	-0: 3	0: 0	83	5.38	.00	412	149	24	15448	8400	3.32
328	3.0C	642	511	18:30:40	-33: 3:19	210312/	-0: 1	0:48	83	5.38	.00	431	319	29	43013	7700	3.42
329	30.0C	647	503	18:30:40	-33: 3:19	210312/	-0: 4	0:49	83	5.38	.00	412	655	61	82796 L	6700	3.57
330	3.0L	172	364	18:30:42	-22:40:38	186976	-0: 2	-0:60	88	9.40	.00	282	9	231	239?	350	7.74
331	3.0L	241	384	18:30:44	-24: 9:44	186977	-0:36	-0: 1	89	7.82	.00	405	68	260	4830 H	5400	4.75
332	.5C	245	377	18:30:44	-24: 9:44	186977	-0:26	0: 8	89	7.82	.00	68	13	23	412 H	1780	5.01
333	30.0C	248	370	18:30:48	-33: 0: 1	210314	-0:19	0:47	89	6.88	.00	371	231	67	27153 H	2200	4.78
334	1.0L	640	520	18:30:48	-33: 0: 1	210314	-0: 9	-2:30	89	6.88	.00	388	111	81	9234 H	20600	3.29
335	3.0L	639	521	18:30:48	-33: 0: 1	210314	-0: 9	-2: 8	89	6.88	.00	456	325	272	27550	43500	2.48
336	.5C	643	514	18:30:48	-33: 0: 1	210314	-0: 3	-2:59	89	6.88	.00	292	60	25	4800 H	12800	2.86
337	3.0C	635	514	18:30:48	-33: 0: 1	210314	-0:10	-3:19	89	6.88	.00	412	149	24	15448 H	8400	3.32
338	10.0C	642	511	18:30:48	-33: 0: 1	210314	-0: 8	-2:31	89	6.88	.00	431	319	29	43013 H	7700	3.42
339	30.0C	647	503	18:30:48	-33: 0: 1	210314	-0:11	-2:30	89	6.88	.00	412	655	61	82796 H	6700	3.57
340	3.0L	372	441	18:30:59	-27: 5:31	186984	0: 7	-1:54	A0	9.20	.00	298	6	266	170?	300	7.91
341	30.0C	896	596	18:31: 0	-38:29:15	210317	0: 1	-0:44	A0	9.38	9.26	88	9	66	1872L	18	10.03
342	3.0L	295	414	18:31: 1	-25:25: 9	186986	-0: 2	0:14	88	9.00	.00	347	45	255	20362H	2000	5.84
343	3.0C	291	407	18:31: 1	-25:25: 9	186986	0: 4	-1:26	88	9.00	.00	63	12	19	350	285	7.01
344	10.0C	303	402	18:31: 1	-25:25: 9	186986	-0:21	-4:10	88	9.00	.00	84	21	30	7830	112	8.03
345	10.0C	299	404	18:31: 1	-25:25: 9	186986	0: 2	-0:36	88	9.00	.00	132	33	30	17110	221	7.29
346	30.0C	300	400	18:31: 1	-25:25: 9	186986	0:20	0:39	88	9.00	.00	180	79	65	6000 H	340	6.82
347	3.0L	542	494	18:31: 2	-30:55:20	210318	-0: 4	0:55	89	7.15	.00	324	11	260	469 L	545	7.26
348	3.0C	538	487	18:31: 2	-30:55:20	210318	-0: 4	0:17	89	7.15	.00	67	10	20	315 L	265	7.09
349	10.0C	546	484	18:31: 2	-30:55:20	210318	-0: 5	-0:42	89	7.15	.00	145	32	26	1774 L	240	7.20
350	30.0C	550	476	18:31: 2	-30:55:20	210318	-0: 6	0:30	89	7.15	.00	177	82	52	5370 L	250	7.16

PAGE, CARRUTHERS, AND HECKATHORN

SAGITTARIUS EAST, R.A. 18:34 DEC. -30:24 (6 FRAMES)

OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAD NO.	A R.A.	A DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	BG	DENSITY VOLUME	CORR. V/E	UV MAG.
351	3.0L	149	363	18:31:22	-22:15:2	186994	-0:3	-0:44	88	9.00	.00	270	36	224	1231 H	1100	6.49
352	10.0C	153	353	18:31:22	-22:15:2	186994	-0:6	-2:21	88	9.00	.00	81	25	34	807	130	7.87
353	30.0C	157	346	18:31:22	-22:15:2	186994	0:1	-0:18	88	9.00	.00	141	114	65	4365	230	7.25
354	3.0L	697	549	18:31:24	-34:23:57	210329	0:2	0:11	89	9.21	8.90	306	5	275	172	310	7.87
355	10.0C	701	538	18:31:24	-34:23:57	210329	-0:4	-0:59	89	9.21	8.90	60	5	30	131 L	65	8.63
356	30.0C	705	531	18:31:24	-34:23:57	210329	0:2	1:2	89	9.21	8.90	91	11	60	294 L	46	9.00
357	3.0L	286	416	18:31:32	-25:14:48	186997	-0:6	-0:12	89	9.30	.00	286	8	253	216	890*	6.72
358	3.0L	288	420	18:31:32	-25:14:48	186997	0:11	-4:10	89	9.30	.00	284	18	255	446?H	57	8.77
359	10.0C	289	407	18:31:32	-25:14:48	186997	0:3	-1:25	89	9.30	.00	55	6	29	137 L	36	9.27
360	30.0C	293	401	18:31:32	-25:14:48	186997	0:11	-0:37	89	9.30	.00	97	29	67	683 L	51	8.89
361	10.0C	346	429	18:31:43	-26:30:58	187001	0:3	-1:28	A0	9.10	.00	58	5	30	127 L	26	9.63
362	30.0C	350	421	18:31:43	-26:30:58	187001	-0:0	1:19	A0	9.10	.00	92	14	67	285 L	100	8.16
363	10.0C	928	627	18:31:44	-39:18:52	210338	0:14	-2:46	A0	8.78	8.45	64	12	35	300 L	36	9.27
364	30.0C	932	621	18:31:44	-39:18:52	210338	0:20	-0:44	A0	8.78	8.45	102	28	71	709 L	180	8.46
365	3.0L	212	390	18:31:50	-23:35:38	187002	-0:15	-2:35	A0	9.50	.00	262	4	237	89?	17	10.09
366	30.0C	493	469	18:31:55	-29:41:47	210344	-0:9	-2:41	A0	6.85	.00	96	5	58	439 L	585	7.18
367	3.0L	631	534	18:32:10	-32:55:53	210344	0:1	0:8	A0	6.85	.00	82	5	60	99?L	15	10.23
368	30.0C	637	517	18:32:10	-32:55:53	210344	-0:2	-0:51	83	8.50	.00	100	14	69	359	976	6.62
369	1.0L	141	370	18:32:19	-22:7:54	187010	-0:7	-1:37	83	8.50	.00	352	54	231	2916 H	2600	5.55
370	3.0L	141	371	18:32:19	-22:7:54	187010	-0:8	-1:26	83	8.50	.00	82	30	20	1147	595	6.21
371	10.0C	136	363	18:32:19	-22:7:54	187010	-0:6	-0:52	83	8.50	.00	183	72	32	4584	645	6.12
372	10.0C	143	361	18:32:19	-22:7:54	187010	-0:7	-0:46	83	8.50	.00	283	177	67	16566	1200	5.45
373	30.0C	148	354	18:32:19	-22:7:54	187010	-0:18	-0:4	89	9.20	.00	112	7	55	251?	20	9.91
374	30.0C	461	465	18:32:26	-29:1:27	187015	-0:2	-0:16	89	9.60	.00	90	24	67	528?L	29	9.51
375	30.0C	172	362	18:32:27	-22:38:23	187021	-0:24	6:31	89	9.60	.00	287	6	262	138?	260	8.06
376	3.0L	355	453	18:32:38	-26:51:13	187021	-0:1	-1:7	A0	9.27	8.84	60	10	26	263	74	8.48
377	30.0C	356	438	18:32:38	-26:51:13	210354	0:12	0:29	A0	9.27	8.84	86	27	52	737	40	9.16
378	10.0C	541	496	18:32:48	-30:52:7	210354	-0:1	-1:59	89	9.07	8.72	307	6	280	138	275	8.00
380	3.0L	682	558	18:32:51	-34:9:24	210355	-0:12	0:0	89	9.07	8.72	77	18	31	562	102	8.13
381	10.0C	686	549	18:32:51	-34:9:24	210355	-0:30	1:1	89	9.07	8.72	115	50	59	1922	88	8.30
382	30.0C	690	540	18:32:51	-34:9:24	210355	-0:4	-1:23	89	8.90	.00	297	33	255	1075?H	1050	6.54
383	3.0L	325	453	18:32:58	-26:16:41	187027	-0:3	-1:45	89	8.95	8.51	312	26	259	799 H	880	6.73
384	3.0L	614	538	18:32:59	-32:38:27	210358	-0:6	1:27	89	8.95	8.51	108	54	51	522	98	8.18
385	10.0C	617	528	18:32:59	-32:38:27	210358	-0:14	4:7	A2	9.71	9.73	286	4	260	2116	98	8.18
386	30.0C	620	522	18:32:59	-32:38:27	210358	-0:17	5:27	A3	9.70	9.81	279	4	253	97?	200	8.35
387	3.0L	491	499	18:33:3	-29:58:38	187030	-0:5	-1:9	89	8.50	.00	279	4	253	101	200	8.35
388	3.0L	594	537	18:33:4	-32:20:31	210360?	-0:5	-1:9	89	8.50	.00	279	4	253	101	200	8.35
389	30.0C	396	453	18:33:12	-27:38:28	N6656	-0:5	0:54	GL08	6.5	6.5	87	10	61	231?	21	9.86
390	1.0L	220	411	18:33:18	-23:56	N6656	0:0	0:0	GL08	6.5	6.5	266	49	73	49	49	9.88
391	3.0L	223	414	18:33:18	-23:56	N6656	-0:9	1:24	GL08	6.5	6.5	28	49	250	195	65	9.58
392	3.0C	214	405	18:33:18	-23:56	N6656	-0:5	-2:42	GL08	6.5	6.5	40	49	21	100	33	9.37
393	10.0C	224	404	18:33:18	-23:56	N6656	-0:11	-0:36	GL08	6.5	6.5	79	49	34	128	13	10.38
394	30.0C	228	395	18:33:18	-23:56	N6656	0:5	-1:9	89	8.50	.00	279	6	253	216	7	11.06
395	3.0L	284	441	18:33:31	-25:21:20	187037	0:5	-1:9	89	8.50	.00	279	6	253	131 L	245	8.13
396	10.0C	287	430	18:33:31	-25:21:20	187037	-0:7	-0:22	89	8.50	.00	115	52	65	472	92	8.25
397	30.0C	292	421	18:33:32	-25:21:20	187037	-0:9	-4:36	A2	8.30	8.19	259	36	215	1829	84	8.35
398	3.0L	834	622	18:33:32	-37:27:24	210367	-0:23	-0:32	85	8.20	.00	56	17	19	1178 H	760	6.89
399	3.0C	46	345	18:33:41	-20:21:23	187040	-0:23	-1:7	85	8.20	.00	128	68	31	480	330E	6.85
400	10.0C	54	343	18:33:41	-20:21:23	187040	-0:23	-1:7	85	8.20	.00	128	68	31	3300	445E	6.53

NRL REPORT 8487

SAGITTARIUS EAST, R.A. 18:34 DEC. -30:24 (6 FRAMES)

OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAO NO.	Δ R.A.	Δ DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	BG	DENSITY VOLUME	CORR. V/E	UV MAG.
401	10.0C	685	560	18:33:52	-34:13:20	210370	-0:1	-0:48	A0	9:33	9:01	54	4	30	90 L	46	9.00
402	30.0C	690	550	18:33:52	-34:13:20	210370	-0:15	-0:0	A0	9:33	9:01	88	15	59	380 L	25	9.67
403	30.0C	120	366	18:34:1	-21:41:37	187052	0:3	-0:22	B8	9:10	.00	87	13	64	2787L	22	9.81
404	3.0L	200	422	18:34:21	-23:39:25	187059	0:15	2:6	B9	9:10	.00	260	11	232	2712	370	7.68
405	30.0C	211	402	18:34:21	-23:39:25	187059	-0:7	0:34	B9	9:10	.00	106	6	76	1652L		
406	30.0C	204	404	18:34:21	-23:39:25	187059	0:14	6:54	B9	9:10	.00	142	29	67	1191?	65*	8.63
407	1.0L	698	580	18:34:24	-34:35:19	210378	0:2	-1:4	B8	7:93	7:30	140	16	80	610 H	900	6.71
408	3.0L	697	581	18:34:24	-34:35:19	210378	0:2	-0:40	B8	7:93	7:30	393	30	281	1878 H	1800	5.95
409	3.0C	692	573	18:34:24	-34:35:19	210378	-0:3	-0:19	B8	7:93	7:30	126	26	21	1225 H	600	6.20
410	10.0C	700	570	18:34:24	-34:35:19	210378	-0:2	-0:38	B8	7:93	7:30	268	57	33	4765 H	635	6.14
411	30.0C	704	563	18:34:24	-34:35:19	210378	-0:3	0:34	B8	7:93	7:30	282	121	67	11250 H	810	5.87
412	3.0L	747	601	18:34:28	-35:43:38	210379	0:13	0:38	A0	9:46	9:15	279	6	255	128	250	8.11
413	1.0L	402	489	18:34:31	-28:1:44	187063	0:4	0:12	B2	8:60	.00	111	6	80	148 L	465	7.43
414	3.0L	401	490	18:34:31	-28:1:44	187063	0:3	0:39	B2	8:60	.00	360	23	277	879 L	980	6.62
415	3.0C	396	483	18:34:31	-28:1:44	187063	0:5	0:36	B2	8:60	.00	67	13	19	439 L	435	6.55
416	10.0C	404	480	18:34:31	-28:1:44	187063	0:3	0:16	B2	8:60	.00	143	35	28	2027 L	270	7.07
417	30.0C	409	471	18:34:31	-28:1:44	187063	-0:10	1:2	B2	8:60	.00	190	92	62	5960 L	335	6.84
418	3.0L	134	397	18:34:33	-22:9:46	187064	-0:3	-2:22	B9	9:40	.00	251	14	215	398?H	450	7.47
419	3.0L	806	618	18:34:34	-36:55:15	210380	-0:18	-3:39	A2	9:52	9:32	263	3	241	62 L	140	8.74
420	10.0C	849	627	18:34:39	-37:50:53	210381	0:7	-1:7	A2	9:58	9:24	96	15	64	415?	46*	8.68
421	30.0C	852	621	18:34:39	-37:50:53	210381	0:17	0:35	A2	9:58	9:24	96	15	64	415?	46*	9.00
422	30.0C	852	623	18:34:39	-37:50:53	210381?	0:29	-0:11	A2	9:58	9:24	93	10	63	2562L		
423	1.0L	182	418	18:34:54	-23:14:12	187070	0:5	-0:19	B9	9:40	.00	125	27	71	917 H	1390	6.23
424	3.0L	182	419	18:34:54	-23:14:12	187070	0:1	-1:4	B9	9:40	.00	397	63	242	4254 H	4300	5.00
425	3.0C	177	412	18:34:54	-23:14:12	187070	0:4	-1:14	B9	9:40	.00	112	32	19	1557 H	740	5.97
426	10.0C	185	409	18:34:54	-23:14:12	187070	-0:0	-1:26	B9	9:40	.00	249	72	33	5546 H	830	5.85
427	30.0C	190	401	18:34:54	-23:14:12	187070	-0:6	-0:59	B9	9:40	.00	315	163	70	16460 H	1260	5.39
428	3.0L	549	541	18:35:6	-31:21:31	210386	-0:11	-0:22	B8	9:15	8:71	306	6	258	213	330	7.80
429	10.0C	553	531	18:35:6	-31:21:31	210386	-0:4	-1:6	B8	9:15	8:71	75	16	25	564 L	104	8.11
430	30.0C	557	523	18:35:6	-31:21:31	210386	-0:10	0:28	B8	9:15	8:71	104	43	51	1572 L	63	8.66
431	3.0L	806	629	18:35:8	-37:1:13	210388	0:14	-1:55	A5	9:59	9:74	297	18	260	451 H	530	7.29
432	3.0C	801	622	18:35:8	-37:1:13	210388	0:15	-2:2	A5	9:59	9:74	51	6	21	155 H	200	7.40
433	10.0C	809	619	18:35:8	-37:1:13	210388	0:22	-2:39	A5	9:59	9:74	115	36	32	1610 H	225	7.27
434	30.0C	814	611	18:35:8	-37:1:13	210388	-0:9	-0:41	A5	9:59	9:74	150	79	65	3963 H	195	7.43
435	3.0L	670	581	18:35:14	-34:2:34	210392	-0:3	-0:46	B9	8:55	8:07	329	8	286	2462L	400	7.59
436	3.0C	665	573	18:35:14	-34:2:34	210392	-0:7	-0:25	B9	8:55	8:07	53	6	19	158	205	7.37
437	10.0C	673	570	18:35:14	-34:2:34	210392	-0:1	-1:7	B9	8:55	8:07	109	23	31	988	145	7.75
438	30.0C	676	565	18:35:14	-34:2:34	210392	0:11	0:30	B9	8:55	8:07	139	63	59	2968	135	7.83
439	3.0L	806	629	18:35:18	-37:2:44	210394	0:4	-0:24	B8	9:02	8:65	297	18	260	451	530	7.29
440	3.0C	801	622	18:35:18	-37:2:44	210394	0:5	-0:32	B8	9:02	8:65	51	6	21	155 L	200	7.40
441	10.0C	809	619	18:35:18	-37:2:44	210394	0:12	-1:8	B8	9:02	8:65	115	36	32	1610	225	7.27
442	30.0C	814	611	18:35:18	-37:2:44	210394	-0:1	0:50	B8	9:02	8:65	150	79	65	3963	195	7.43
443	3.0L	836	642	18:35:27	-37:42:3	210397	0:2	-0:49	B8	8:92	8:49	344	44	255	1480 H	1100	6.49
444	3.0C	831	635	18:35:27	-37:42:3	210397	0:9	-1:21	B8	8:92	8:49	68	21	21	632 H	385	6.69
445	10.0C	839	632	18:35:27	-37:42:3	210397	0:7	0:1	B8	8:92	8:49	183	51	35	3285 H	415	6.60
446	30.0C	844	623	18:35:27	-37:42:3	210397	-0:3	0:26	B8	8:92	8:49	208	125	63	8709 H	550	6.30
447	1.0L	195	429	18:35:28	-23:32:57	187080	0:2	-0:48	B9	5:75	.00	243	52	71	3210 H	4450	3.97
448	3.0L	194	430	18:35:28	-23:32:57	187080	-0:1	-0:21	B9	5:75	.00	425	110	240	8934 H	12000	3.88
449	.5C	198	426	18:35:28	-23:32:57	187080	0:23	-2:21	B9	5:75	.00	91	25	22	966	3100	4.41
450	3.0C	190	423	18:35:28	-23:32:57	187080	0:0	-1:42	B9	5:75	.00	310	69	24	6208	2850	4.50

PAGE, CARRUTHERS, AND HECKATHORN

SAGITTARIUS EAST. R.A. 18:34 DEC. -30:24 (6 FRAMES)

OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAO NO.	A R.A.	A DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	BO	DENSITY VOLUME	CORR. V/E	UV MAG.
451	10.0C	198	421	18:35:28	-23:32:57	187080	0:2	-2:18	B9	5.75	.00	359	132	36	15916	2750	4.54
452	30.0C	201	416	18:35:28	-23:32:57	187080	0:14	-0:40	B9	5.75	.00	389	325	74	39192	3300	4.34
453	30.0C	852	623	18:35:30	-37:55:4	210400?	-0:21	3:59	A2	7.75	7.63	93	10	63	256?L	21	9.86
454	1.0L	513	535	18:35:39	-30:33:49	210403	-0:4	-2:21	B8	7.62	.00	98	4	75	89 L	385	7.64
455	3.0L	511	536	18:35:39	-30:33:49	210403	-0:6	1:7	B8	7.62	.00	349	20	264	982	980	6.62
456	3.0C	507	529	18:35:39	-30:33:49	210403	-0:6	-0:6	B8	7.62	.00	66	9	19	301 L	255	7.13
457	10.0C	515	526	18:35:39	-30:33:49	210403	-0:1	-0:49	B8	7.62	.00	144	32	27	1730 L	230	7.25
458	30.0C	519	519	18:35:39	-30:33:49	210403	-0:2	0:22	B8	7.62	.00	171	86	52	5403 L	275	7.05
459	1.0L	465	521	18:35:40	-29:31:00	NO	-0:2	0:4				120	10	74	258	384	7.64
460	3.0L	464	523	18:35:40	-29:31:00	NO	0:3	-0:4				345	12	255	680	382	7.64
461	3.0C	571	550	18:35:44	-32:0:47	NO	0:1	-0:10				40	4	18	85	160	7.64
462	10.0C	579	547	18:35:44	-32:0:47	NO	0:0	-0:30				85	22	27	801	135	7.83
463	30.0C	583	539	18:35:44	-32:0:47	NO	-0:1	0:41				110	43	50	1720	75	8.47
464	3.0L	675	591	18:35:59	-34:12:42	210408	0:1	-0:29	A0	6.64	.00	358	61	265	2730	2700	5.51
465	3.0C	670	583	18:35:59	-34:12:42	210408	-0:4	-0:9	A0	6.64	.00	80	12	20	441 L	305	6.94
466	10.0C	678	580	18:35:59	-34:12:42	210408	-0:4	-0:26	A0	6.64	.00	170	38	31	2284 L	305	6.94
467	30.0C	683	571	18:35:59	-34:12:42	210408	-0:12	-0:4	A0	6.64	.00	196	101	65	6070 L	355	6.77
468	3.0L	405	509	18:36:4	-28:13:35	187089	-0:2	-0:31	B9	7.46	.00	306	7	270	187 L	330	7.80
469	10.0C	408	499	18:36:4	-28:13:35	187089	0:4	-1:16	B9	7.46	.00	68	13	28	375 L	84	8.35
470	30.0C	411	495	18:36:4	-28:13:35	187089?	0:23	1:9	B9	7.46	.00	100	44	58	1390 L	63	8.66
471	3.0L	596	568	18:36:9	-32:28:16	210409	-0:1	-0:57	B9	9.05	8.63	326	4	271	162	280	7.98
472	3.0C	591	560	18:36:9	-32:28:16	210409	-0:5	-0:35	B9	9.05	8.63	95	4	19	93	168	7.59
473	10.0C	599	557	18:36:9	-32:28:16	210409	-0:1	-1:17	B9	9.05	8.63	91	22	28	831	135	7.83
474	30.0C	603	551	18:36:9	-32:28:16	210409	0:5	-0:30	B9	9.05	8.63	118	52	55	2132	100	8.16
475	30.0C	627	564	18:36:13	-33:2:25	210412?	0:31	-0:9	A0	7.85	.00	80	15	54	341?L	25	9.67
476	3.0L	117	413	18:36:29	-22:0:41	187096	-0:9	1:13	A0	8.20	.00	242	14	215	319	395	7.61
477	10.0C	121	405	18:36:29	-22:0:41	187096	-0:2	-1:4	A0	8.20	.00	66	18	31	501	97	8.19
478	30.0C	126	398	18:36:29	-22:0:41	187096	-0:2	-0:12	A0	8.20	.00	118	70	66	2373	110	8.05
479	1.0L	456	529	18:36:37	-29:23:7	187100	-0:1	0:5	B	9.50	.00	105	5	75	124	587	7.18
480	3.0L	455	530	18:36:37	-29:23:7	187100	-0:2	0:25	B	9.50	.00	341	317	259	2016 H	2000	5.84
481	3.0C	451	523	18:36:37	-29:23:7	187100	-0:2	-0:48	B	9.50	.00	58	11	18	31	270	7.07
482	10.0C	459	520	18:36:37	-29:23:7	187100	-0:4	-1:6	B	9.50	.00	123	30	28	1440	200	7.40
483	30.0C	463	513	18:36:37	-29:23:7	187100	0:2	-0:19	B	9.50	.00	153	75	55	4284	205	7.37
484	30.0C	81	389	18:37:3	-21:0:44	187111?	-0:1	-6:37	B9	9.00	.00	93	16	66	379?L	24	9.71
485	3.0L	148	434	18:37:9	-22:42:37	187112	-0:1	0:36	B5	8.90	.00	293	47	215	1848 H	1700	6.02
486	3.0C	144	427	18:37:9	-22:42:37	187112	0:5	-1:10	B5	8.90	.00	58	13	20	373	290	6.99
487	10.0C	152	425	18:37:9	-22:42:37	187112	0:6	-1:41	B5	8.90	.00	128	47	31	2362	320	6.89
488	30.0C	155	418	18:37:9	-22:42:37	187112	0:7	-0:28	B5	8.90	.00	198	123	66	8144	510	6.38
489	30.0C	627	564	18:37:10	-33:2:44	210435?	-0:26	0:9	A0	9.20	8.88	80	15	54	341?L	24	9.71
490	10.0C	481	535	18:37:27	-29:55:51	NO*	-0:9	-0:37				78	16	26	563	103	8.12
491	30.0C	484	530	18:37:27	-29:55:51	NO*	0:9	0:36				113	54	56	2062	105	8.10
492	3.0L	91	418	18:37:39	-21:32:31	187119	-0:13	0:32	B9	8.80	.00	246	23	30	604?H	610	7.13
493	10.0C	94	409	18:37:39	-21:32:31	187119	-0:4	-0:33	B9	8.80	.00	76	30	30	946	150	7.71
494	30.0C	99	402	18:37:39	-21:32:31	187119	-0:3	0:43	B9	8.80	.00	130	98	65	3957	210*	7.35
495	30.0C	97	408	18:37:39	-21:32:31	187119?	0:31	0:46	B9	8.80	.00	101	7	64	206 L		
496	3.0L	255	479	18:37:41	-25:3:35	187120	0:3	0:9	A0	9.00	.00	275	7	245	172?	290	7.94
497	3.0L	931	595	18:37:42	-39:44:54	210450?	-0:30	-5:8	A2	8.84	8.79	259	6	230	149	260	8.06
498	10.0C	935	684	18:37:42	-39:44:54	210450?	-0:27	-6:40	A2	8.84	8.79	72	24	37	649	113	8.02
499	30.0C	939	677	18:37:42	-39:44:54	210450?	-0:29	-4:17	A2	8.84	8.79	111	80	68	2386	120	7.96
500	30.0C	465	522	18:37:43	-29:22:27	187122?	-0:24	-6:29	A3	8.80	.00	94		60	101?L	14	10.30

## SAGITTARIUS EAST, R.A. 18:34 DEC. -30:24 (6 FRAMES)

OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAO NO.	$\Delta$ R.A.	$\Delta$ DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	BG	DENSITY VOLUME	CORR. V/E	UV MAG.
501	3.0L	751	633	18:37:44	-35:56:7	210451	-0:15	-4:20	A2	10.10	9.62	286	11	257	255 H		
502	3.0L	743	631	18:37:44	-35:56:7	210451?	-0:6	5:35	A2	10.10	9.62	290	11	260	270	800*	6.84
503	3.0C	525	559	18:37:54	-31:7:10	210457	-0:7	1:12	B8	8.82	8.50	51	5	19	127 L	195	7.43
504	10.0C	533	557	18:37:54	-31:7:10	210457	-0:3	1:52	B8	8.82	8.50	104	25	27	1047	160	7.64
505	30.0C	536	552	18:37:54	-31:7:10	210457	0:15	-0:39	B8	8.82	8.50	130	63	50	3111	140	7.79
506	30.0C	315	483	18:38:4	-26:12:21							157	10	65	506?	26	9.63
507	1.0L	428	538	18:38:8	-28:52:25	187128	0:2	-0:9	B8	7.90	.00	115	7	77	208	550	7.25
508	3.0L	428	539	18:38:8	-28:52:25	187128	-0:1	-0:55	B8	7.90	.00	356	21	269	1076	1050	6.54
509	3.0C	423	532	18:38:8	-28:52:25	187128	0:1	-0:57	B8	7.90	.00	83	16	20	611	370	6.73
510	10.0C	431	529	18:38:8	-28:52:25	187128	-0:1	1:13	B8	7.90	.00	192	44	28	2781	345	6.80
511	30.0C	435	521	18:38:8	-28:52:25	187128	-0:7	0:20	B8	7.90	.00	220	104	57	7786	440	6.54
512	1.0L	630	599	18:38:13	-33:20:31	210464	-0:4	-2:1	B9	8.87	8.37	106	5	79	116	440	7.49
513	3.0L	629	601	18:38:13	-33:20:31	210464	-0:4	-1:47	B9	8.87	8.37	346	27?	277?	1492 H	1400	6.23
514	3.0C	624	593	18:38:13	-33:20:31	210464	-0:1	-0:38	B9	8.87	8.37	66	10	19	342 H	270	7.07
515	10.0C	632	590	18:38:13	-33:20:31	210464	-0:1	-0:34	B9	8.87	8.37	152	34	30	1864 H	250	7.16
516	30.0C	636	582	18:38:13	-33:20:31	210464	-0:8	0:38	B9	8.87	8.37	170	97	60	5115 H	265	7.09
517	3.0L	279	492	18:38:14	-25:28:41	187130?	-0:5	-7:58	A0	9.30	.00	291	98	248	26487H	2800	5.47
518	1.0L	364	525	18:38:39	-27:29:36	187141	0:5	-0:43	B5	8.30	.00	372	17	275	969	950	6.65
519	3.0L	363	526	18:38:39	-27:29:36	187141	0:3	-0:16	B5	8.30	.00	77	16	21	554 L	350	6.79
520	3.0C	359	518	18:38:39	-27:29:36	187141	-0:1	1:8	B5	8.30	.00	171	41	33	2548	315	6.90
521	10.0C	367	516	18:38:39	-27:29:36	187141	0:2	-1:46	B5	8.30	.00	215	97	70	7129	440	6.54
522	30.0C	371	508	18:38:39	-27:29:36	187141	0:1	-0:36	B5	8.30	.00	20	80		994 H	1280	6.32
523	1.0L	586	593	18:38:54	-32:24:58	210478	-0:3	-1:3	B8	7.76	7.11	176	20	80	2228 H	2500	5.59
524	3.0L	584	594	18:38:54	-32:24:58	210478	-0:7	0:59	B8	7.76	7.11	409	62	273	6965 H	1000	5.89
525	3.0C	580	587	18:38:54	-32:24:58	210478	-0:2	-0:38	B8	7.76	7.11	309	77	29	1776 H	800	5.64
526	10.0C	588	584	18:38:54	-32:24:58	210478	-0:2	-0:54	B8	7.76	7.11	317	172	56	17120 H	1200	5.45
527	30.0C	592	577	18:38:54	-32:24:58	210478	-0:3	0:15	B8	7.76	7.11	336	13	269	502	600	7.15
528	3.0L	460	559	18:39:0	-29:39:2	187151	0:0	-0:26	B9	8.60	.00	50	5	19	124	190	7.46
529	3.0C	455	551	18:39:0	-29:39:2	187151	-0:3	-0:5	B9	8.60	.00	107	25	27	1120	165	7.61
530	10.0C	463	549	18:39:0	-29:39:2	187151	0:1	-0:44	B9	8.60	.00	132	50	59	2319	110	8.05
531	30.0C	468	538	18:39:0	-29:39:2	187151	-0:18	0:22	B9	8.60	.00	274	4	248	98	195	8.38
532	3.0L	506	579	18:39:2	-30:40:35	210479?	0:29	-3:4	A2	9.12	8.85	253	11	221	275	370	7.68
533	3.0L	162	464	18:39:9	-23:10:57	187154	0:6	1:24	A0	9.00	.00	54	4	31	91 L	48	8.96
534	10.0C	166	455	18:39:9	-23:10:57	187154	0:8	-0:28	A0	9.00	.00	99	39	65	1048	48	8.96
535	30.0C	172	446	18:39:9	-23:10:57	187154	-0:5	-0:53	A0	9.00	.00	282	8	252	211?H	340	7.77
536	3.0L	815	672	18:39:21	-37:35:15	210485?	-0:19	5:9	A2	10.50	10.32	120	44	71	1350 H	2539	5.58
537	1.0L	901	709	18:39:25	-39:20:6	210488	0:18	-0:41	B8	7.09	.00	384	110	236	7377 H	9900	4.09
538	3.0L	901	710	18:39:25	-39:20:6	210488	0:17	-1:25	B8	7.09	.00	131	67	20	3450 H	1600	5.13
539	3.0C	896	702	18:39:25	-39:20:6	210488	0:11	-1:19	B8	7.09	.00	384	131	38	15499 H	2640	4.58
540	10.0C	908	700	18:39:25	-39:20:6	210488	0:20	-1:45	B8	7.09	.00	359	237	69	29419 H	2400	4.69
541	30.0C	904	695	18:39:25	-39:20:6	210488?	0:37	-1:41	B8	7.09	.00	124	4	83	121?	14	10.30
542	30.0C	351	512	18:39:32	-30:26:52	40	0:10	-0:40				50	4	25	93	49	8.93
543	10.0C	496	566	18:39:32	-30:26:52	NO	-0:10	0:40				81	20	52	498	29	9.51
544	30.0C	501	556	18:39:32	-30:26:52	NO	-0:10	0:40				233	9	206	218 L	300	7.91
545	3.0L	115	454	18:39:38	-22:13:11	187164	0:9	-0:13	B8	8.60	.00	67	22	30	616 L	112	8.03
546	10.0C	119	443	18:39:38	-22:13:11	187169	0:3	-0:8	B8	8.60	.00	111	68	64	2329 L	114	8.01
547	30.0C	123	438	18:39:38	-22:13:11	187169	0:14	0:21	B8	8.60	.00	330	13	267	542	620	7.12
548	3.0L	369	540	18:39:46	-27:41:53	187170	0:3	-0:31	B9	8.40	.00	53	6	20	160 L	200	7.40
549	3.0C	364	533	18:39:46	-27:41:53	187170	0:5	-0:34	B9	8.40	.00	104	24	33	1012	150	7.71
550	10.0C	372	530	18:39:46	-27:41:53	187170	0:2	0:48	B9	8.40	.00						

## PAGE, CARRUTHERS, AND HECKATHORN

SAGITTARIUS EAST. R.A. 18:34 DEC. -30:24 (6 FRAMES)

OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAO NO.	A R.A.	A DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	BG	DENSITY VOLUME	CORR. V/E	UV MAG.
551	30.0C	376	524	18:39:46	-27:41:53	187170	0: 8	-0: 0	B9	8.40	.00	147	60	72	2738	125	7.91
552	3.0L	657	629	18:40: 5	-34: 5: 0	210498	-0: 5	-1:28	A0	9.39	8.95	315	15	276	420	580	7.19
553	10.0C	660	619	18:40: 5	-34: 5: 0	210498	-0: 4	-1:49	A0	9.39	8.95	62	10	31	258	72	8.51
554	3.0L	726	554	18:40: 7	-35:41:46	210499	0: 7	3:40	A5	9.74	9.80	407	157	281	43472H	5800	4.68
555	3.0L	124	465	18:40:19	-22:27:40	187185	0: 7	1: 6	B9	7.60	.00	244	34	204	1047	900	6.71
556	10.0C	128	455	18:40:19	-22:27:40	187185	0: 4	-0:22	B9	7.60	.00	72	21	31	625 L	112	8.03
557	30.0C	133	446	18:40:19	-22:27:40	187185	-0: 7	0:25	B9	7.60	.00	114	70	67	2324 L	113	8.02
558	3.0L	853	702	18:40:21	-38:22:24	210501	0:15	-1:28	A0	5.13	.00	289	22	248	618 L	690	7.00
559	3.0C	847	694	18:40:21	-38:22:24	210501	0:11	-0: 9	A0	5.13	.00	61	20	20	586 L	375	6.71
560	10.0C	866	691	18:40:21	-38:22:24	210501	0:12	-1:26	A0	5.13	.00	178	57	35	3447 L	450	6.52
561	30.0C	860	683	18:40:21	-38:22:24	210501	0:10	-0:16	A0	5.13	.00	193	118	65	7952 L	490	6.42
562	30.0C	583	590	18:40:22	-32:18:48	210509	0: 3	0: 3	B3	4.82	.00	93	28	56	820?	42	9.10
563	1.0L	727	661	18:40:58	-35:41:35	210509	0: 3	0: 3	B3	4.82	.00	423	201	82	20549 H	56000	2.20
564	3.0L	726	663	18:40:58	-35:41:35	210509	0: 9	0: 9	B3	4.82	.00	469	440	284	41500	61000	2.11
565	3.0C	730	655	18:40:58	-35:41:35	210509	0: 8	-0:27	B3	4.82	.00	390	121	27	11900 H	38500	1.66
566	3.0C	721	655	18:40:58	-35:41:35	210509	0: 4	0:23	B3	4.82	.00	446	304	20	31444	18500	2.46
567	10.0C	728	652	18:40:58	-35:41:35	210509	0: 7	1:25	B3	4.82	.00	452	535	40	81361	16500	2.59
568	30.0C	735	643	18:40:58	-35:41:35	210509	-0: 6	-0:40	B3	4.82	.00	424	935	83	123354 L	15000	2.69
569	3.0L	227	511	18:40:59	-24:45: 9	187199	0:15	2:11	A0	9.20	.00	265	7	237	157?	270	8.02
570	3.0L	301	539	18:41:22	-26:16:45	187209	0:10	-3:17	A0	9.20	.00	286	17	255	444 H	550	7.25
571	3.0L	191	499	18:41:31	-23:53: 2	187211	-0:11	-3:19	A0	9.90	.00	247	16	219	366 H	490	7.37
572	10.0C	557	605	18:41:38	-31:56:22	210523?	-0: 3	0:42	A5	9.55	9.36	59	7	29	183 H	61	8.70
573	30.0C	561	597	18:41:38	-31:56:22	210523?	-0: 4	1:50	A5	9.55	9.36	88	26	52	723 H	38	9.21
574	10.0C	557	605	18:41:45	-31:54:11	210526?	-0:10	-1:29	B9	9.70	9.18	59	7	29	183 L	61	8.70
575	30.0C	561	597	18:41:45	-31:54:11	210526?	-0:10	-1:29	B9	9.70	9.18	88	26	52	723 L	38	9.21
576	1.0L	242	521	18:41:46	-25: 3:46	187216	0: 7	-0:31	B8	5.76	.00	215	40	72	2297	3250	5.31
577	3.0L	242	523	18:41:46	-25: 3:46	187216	0: 6	-1:26	B8	5.76	.00	418	139	242	6600?	9500	4.14
578	3.0C	245	516	18:41:46	-25: 3:46	187216	0:21	-0:11	B8	5.76	.00	81	17	23	598	2180	4.79
579	3.0C	237	515	18:41:46	-25: 3:46	187216	0: 6	-1:21	B8	5.76	.00	254	57	22	4383	1910	4.79
580	10.0C	245	513	18:41:46	-25: 3:46	187216	0: 9	-0:39	B8	5.76	.00	380	110	38	11998	2020	4.88
581	30.0C	250	505	18:41:46	-25: 3:46	187216	0: 2	-0:18	B8	5.76	.00	373	213	86	25362 L	2400	4.69
582	3.0L	913	737	18:41:48	-39:46:37	NO*	0: 9	0:47				298	33	240	1316	1200	6.40
583	3.0C	910	729	18:41:48	-39:46:37	NO*	-0: 2	-0:32				65	33	21	983	540	6.32
584	10.0C	918	726	18:41:48	-39:46:37	NO*	0: 2	-0:23				197	91	38	6023	930	5.72
585	30.0C	922	717	18:41:48	-39:46:37	NO*	-0: 9	1: 8				227	168	72	12647	990	5.65
586	3.0L	203	509	18:41:50	-24:11:49	187220	-0: 2	-2:10	B9	9.10	.00	253	6	227	138?	240	8.15
587	3.0L	151	494	18:41:56	-23: 5: 8	187222	0: 6	-3:26	A0	9.40	.00	232	7	208	150?		
588	10.0C	392	560	18:42: 0	-28:16:23	187225	-0: 7	-1:15	B9	8.10	.00	75	29	35	968 L	200*	7.40
589	10.0C	386	561	18:42: 0	-28:16:23	187225?	0: 9	5:37	B9	8.10	.00	87	29	35	393 L		
590	30.0C	397	549	18:42: 0	-28:16:23	187225?	-0:25	-0:11	B9	8.10	.00	111	12	68	393 L		
591	30.0C	390	554	18:42: 0	-28:16:23	187225?	0: 8	6:46	B9	8.10	.00	125	61	65	2480		
592	30.0C	395	555	18:42: 0	-28:16:23	187225	0: 7	0: 9	B9	8.10	.00	122	67	65	2616	260*	7.11
593	3.0C	400	579	18:42:30	-28:34:48	187237?	-0: 4	-1:22	A0	8.40	.00	303	12	272	370	510	7.33
594	3.0C	407	576	18:42:30	-28:49:49	187237?	0: 1	-0:43	A0	8.40	.00	60	10	20	296	260	7.11
595	10.0C	415	574	18:42:30	-28:49:49	187237?	-0:23	0:42	A0	8.40	.00	128	30	30	1554	210	7.35
596	30.0C	420	563	18:42:31	-28:48:55	187238?	-0: 5	-2:16	A0	8.90	.00	184	77	61	4576	230	7.25
597	3.0C	407	576	18:42:31	-28:48:55	187238?	-0: 5	-2:16	A0	8.90	.00	60	10	20	296 H	260	7.11
598	10.0C	415	574	18:42:31	-28:48:55	187238?	-0:10	-1:37	A0	8.90	.00	128	30	30	1554 H	210	7.35
599	30.0C	420	563	18:42:31	-28:48:55	187238?	-0:24	-0:12	A0	8.90	.00	164	77	61	4576 H	230	7.25
600	1.0L	331	559	18:42:32	-27: 2:38	187239	0: 7	-0:31	B8	3.30	.00	410	179	82	15152	39000	2.60

AD-A115 772

NAVAL RESEARCH LAB WASHINGTON DC  
S201 CATALOG OF FAR-ULTRAVIOLET OBJECTS. REVISED.(U)  
MAY 82 T PAGE, G R CARRUTHERS, H M HECKATHORN  
NRL-8447

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NRL REPORT 8487

SAGITTARIUS EAST, R.A. 18:34 DEC. -30:24 (6 FRAMES)

OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAO NO.	Δ R.A.	Δ DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	BG	DENSITY VOLUME	CORR. V/E	UV MAG.
601	3.0L	332	561	18:42:32	-27: 2:38	187239	0: 2	-2:26	B8	3.30	.00	468	490	274	42000	63000	2.07
602	5C	334	553	18:42:32	-27: 2:38	187239	0:12	-1: 0	B8	3.30	.00	374	113	25	7600	23000	2.22
603	3.0C	326	553	18:42:32	-27: 2:38	187239	0: 6	-1:19	B8	3.30	.00	453	277	25	32202	19000	2.43
604	10.0C	333	550	18:42:32	-27: 2:38	187239	0: 5	-0:16	B8	3.30	.00	452	617	35	81279	16000	2.62
605	30.0C	336	544	18:42:32	-27: 2:38	187239	0:12	1:43	B8	3.30	.00	434	874	97	125781	17000	2.55
606	3.0L	241	531	18:42:33	-25: 6:48	NO*	-0: 5	-0:13				276	17	244	419	515	7.32
607	10.0C	895	725	18:42:34	-39:20:52	NO*	0: 5	0:13				64	12	38	271	72	8.51
608	30.0C	899	720	18:42:34	-39:20:52	NO*	0: 5	0:13				100	52	67	1422	65	8.63
609	10.0C	368	564	18:42:47	-27:49:52	187244	0: 7	-0:19	B9	9.00	.00	70	12	34	336	78	8.43
610	30.0C	372	558	18:42:47	-27:49:52	187244	0:13	0:27	B9	9.00	.00	113	35	75	1026	47	8.98
611	30.0C	317	540	18:42:54	-26:36:36		0:22	0: 1	B9	8.90	8.62	161	27	85	1059?	46	9.00
612	30.0C	876	719	18:43: 0	-38:53:30	210552	0:17	-4:44	A0	9.27	9.05	301	15	272	7662L	38	9.21
613	3.0L	518	625	18:43: 3	-31:11:23	210554	0: 5	0:39	B	9.30	.00	232	10	203	400 H	555	7.24
614	3.0L	153	512	18:43:22	-23:17:52	187258	0: 5	0:39	B	9.30	.00	326	23	274	230?	300	7.91
615	3.0L	326	571	18:43:37	-27: 2:16		-0: 2	-0:36	B3	9.73	8.94	114	9	76	254	585	6.64
616	1.0L	462	611	18:43:44	-30: 0:51	210563	-0: 8	0:16	B3	9.73	8.94	361	25	277	1078 H	1100	6.49
617	3.0L	461	612	18:43:44	-30: 0:51	210563	-0: 3	-1:23	B3	9.73	8.94	64	11	19	359	280	7.03
618	3.0C	457	605	18:43:44	-30: 0:51	210563	-0: 4	-1:33	B3	9.73	8.94	143	36	28	1924	255	7.13
619	10.0C	465	602	18:43:44	-30: 0:51	210563	-0: 5	-0:26	B3	9.73	8.94	175	81	56	5270	270	7.07
620	30.0C	469	594	18:43:44	-30: 0:51	210563	0:17	2:37	A0	10.30	9.71	300	13	270	325	450	7.47
621	3.0L	719	693	18:43:47	-35:47: 2	210567	0: 0	-0: 3	A0	8.90	.00	246	26	211	680 H	1400*	6.23
622	3.0L	169	521	18:43:48	-23:40:42	187266	0:15	-1:10	A0	8.90	.00	251	26	199	789 H		
623	3.0L	169	524	18:43:48	-23:40:42	187266	0: 9	-2:10	A0	8.90	.00	60	8	31	199 L	64	8.64
624	10.0C	173	513	18:43:48	-23:40:42	187266	0: 9	0:13	A0	8.90	.00	100	41	64	1165	53	8.95
625	30.0C	177	506	18:43:48	-23:40:42	187266	0: 8	-0:46	B9	6.95	.00	110	19	72	527	1200	6.40
626	1.0L	806	721	18:43:54	-37:36:11	210570	0: 9	-0:16	B9	6.95	.00	380	51	259	3250	3100	5.36
627	3.0C	805	722	18:43:54	-37:36:11	210570	0:10	-0:30	B9	6.95	.00	116	36	21	1814 H	830	5.95
628	3.0C	800	715	18:43:54	-37:36:11	210570	0: 3	1:24	B9	6.95	.00	338	80	38	8358 H	1260	5.39
629	10.0C	809	711	18:43:54	-37:36:11	210570	0:24	1: 2	B9	6.95	.00	324	166	70	17373 H	1360	5.31
630	30.0C	812	706	18:43:54	-37:36:11	210570/	0:10	1:17	A0	8.50	.00	221	11	191	254	300	7.91
631	3.0L	119	507	18:43:55	-22:38:17	187270	0: 7	-0: 7	A0	8.50	.00	67	16	30	443	89	8.28
632	10.0C	123	497	18:43:55	-22:38:17	187270	0: 1	0:16	A0	8.50	.00	112	68	65	2308	110	8.05
633	30.0C	128	489	18:43:55	-22:38:17	187270	0: 2	1: 4	B9	8.50	.00	218	12	186	323	330	7.80
634	3.0L	105	502	18:43:57	-22:20:52	187272	0: 1	0:51	B9	8.50	.00	63	20	29	525	100	8.16
635	10.0C	109	492	18:43:57	-22:20:52	187272	-0: 0	0:53	B9	8.50	.00	122	88	63	3231	155	7.66
636	30.0C	114	484	18:43:57	-22:20:52	187272	-0: 3	-1:20	B9	8.75	8.29	93	8	31	214 L	65	8.63
637	10.0C	585	641	18:44: 8	-32:42:10	210575	-0:10	0: 9	B9	8.75	8.29	95	34	56	1037 L	49	8.33
638	30.0C	589	632	18:44: 8	-32:42:10	210575	-0:11	-7:24	A2	9.00	.00	274	76	232	2176 H	2300	5.69
639	3.0L	215	547	18:44:27	-24:34:14	1872857	-0: 3	0:21	B9	7.24	.00	333	22?	272?	640	790	6.85
640	3.0L	382	598	18:44:28	-28:20: 6	187286	-0: 2	0:56	B9	7.24	.00	54	9	21	222 L	235	7.22
641	3.0C	378	590	18:44:28	-28:20: 6	187286	0: 1	-1:27	B9	7.24	.00	94	62	73	790 L	125	7.91
642	10.0C	386	588	18:44:28	-28:20: 6	187286	0: 6	-0:41	B9	7.24	.00	134	62	73	2377 L	115	8.00
643	30.0C	390	582	18:44:28	-28:20: 6	187286	0: 6	-0:41	B9	7.24	.00	235	17	210	400	445	7.48
644	3.0L	162	528	18:44:35	-23:36:12		0: 1	0:26	B8	8.50	.00	280	8	232	200	330	7.48
645	3.0L	248	557	18:44:36	-25:24:24	187290	-0: 2	-0:16	B8	8.50	.00	107	4	80	102	503	7.34
646	1.0L	327	583	18:44:47	-27: 8:29	187290	0: 5	-0:43	B8	8.50	.00	360	45	274	2000 H	1665	6.04
647	3.0C	327	585	18:44:47	-27: 8:29	187290	0: 3	-0:50	B8	8.50	.00	162	55	40	2755	347	6.80
648	3.0C	322	578	18:44:47	-27: 8:29	187290	-0: 3	0:29	B8	8.50	.00	225	104	90	8100	600	6.20
649	10.0C	330	575	18:44:47	-27: 8:29	187290											
650	30.0C	335	567	18:44:47	-27: 8:29	187290											



PAGE, CARRUTHERS, AND HECKATHORN

SAGITTARIUS EAST, R.A. 18:34 DEC. -30:24 (6 FRAMES)

OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	S.A.O. NO.	Δ R.A.	Δ DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	B.G.	DENSITY VOLUME	CORR. V/E	UV MAG.
651	1.0L	900	766	18:44:49	-39:39:32	210581	0:18	-1:13	A0	6.97	.00	90	5	68	108 L	1353	6.26
652	3.0L	899	767	18:44:49	-39:39:32	210581	0:20	-0:49	A0	6.97	.00	329	77	234	3665 M	3800	5.14
653	3.0C	895	760	18:44:49	-39:39:32	210581	0:19	-2:20	A0	6.97	.00	72	40	20	1337	700	6.03
654	10.0C	904	757	18:44:49	-39:39:32	210581	0:14	-3:30	A0	6.97	.00	251	109	40	8498 M	1350	5.32
655	30.0C	908	749	18:44:49	-39:39:32	210581	0:19	1:12	A0	6.97	.00	256	220	71	17259 M	1400	5.28
656	3.0L	643	678	18:44:50	-34:7:44	210581	0:19	1:12	A0	6.97	.00	303	8	277	200	360	7.71
657	3.0L	633	676	18:44:56	-33:57:51	210583	0:3	2:48	A2	7.06	.00	302	6	277	138	275	8.00
658	3.0L	342	592	18:44:59	-27:29:10	187299	-0:1	0:12	B9	9.10	.00	313	207	270?	400	570	7.21
659	3.0C	599	659	18:45:0	-33:16:33	NO*	-0:9	0:1				74	11	20	379	280	7.03
660	10.0C	606	659	18:45:0	-33:16:33	NO*	0:10	0:0				168	15	31	934	125	7.91
661	3.0L	226	550	18:45:5	-24:49:43	187301?	-0:28	-6:14	A2	8.60	.00	265	4	241	88	185	8.43
662	1.0L	544	650	18:45:8	-31:55:17	210588	-0:8	-0:40	B8	7.45	6.80	157	24	76	1031 M	1764	5.97
663	3.0L	543	650	18:45:8	-31:55:17	210588	-0:12	-0:5	B8	7.45	6.80	353	103	275	5450	7300	4.43
664	3.0C	539	643	18:45:8	-31:55:17	210588	-0:9	-1:27	B8	7.45	6.80	148	24	21	1386	640	6.13
665	10.0C	547	640	18:45:8	-31:55:17	210588	-0:9	-1:37	B8	7.45	6.80	297	70	33	6110	870	5.80
666	30.0C	550	635	18:45:8	-31:55:17	210588	0:3	-0:1	B8	7.45	6.80	306	153	58	15005	1040	5.60
667	3.0L	481	631	18:45:25	-30:3:21	210581?	-0:6	-5:23	A0	9.51	9.24	311	13	275	380	545	7.26
668	10.0C	321	577	18:45:36	-26:54:32	187308?	-0:20	-4:42	A3	8.50	.00	70	9	39	227	66	8.61
669	30.0C	327	566	18:45:36	-26:54:32	187308?	-0:44	-3:17	A3	8.50	.00	122	38	87	1077	49	8.93
670	30.0C	607	660	18:46:0	-33:14:42	210604?	0:23	-2:2	A2	9.49	9.37	304	5	277	1360?	54	8.83
671	3.0L	566	672	18:46:12	-32:17:52	187317	0:6	2:5	A0	8.50	.00	274	15	235	435	235	8.17
672	3.0L	202	565	18:46:27	-24:35:57	187317	0:7	-0:49	A0	8.50	.00	58	5	34	111 L	52	8.87
673	10.0C	207	556	18:46:27	-24:35:57	187317?	0:25	0:29	A0	8.50	.00	106	44	71	1187 L	53	8.85
674	30.0C	210	552	18:46:27	-24:35:57	210513	-0:10	-1:10	B8	8.82	8.24	350	26	283	1200 M	1200	6.40
675	3.0L	444	643	18:46:42	-30:3:52	210513	-0:10	-1:49	B8	8.82	8.24	95	25	30	943	150	7.71
676	10.0C	458	633	18:46:42	-30:3:52	210513	-0:10	-1:49	B8	8.82	8.24	128	59	62	2551	120	7.96
677	30.0C	453	623	18:46:42	-30:3:52	210613	-0:22	0:1	B8	8.82	8.24	114	7	87	163?	15	10.23
678	30.0C	262	568	18:46:52	-25:41:59	210613	-0:22	0:1	B8	8.82	8.24	114	7	87	163?	15	10.23
679	30.0C	293	580	18:47:16	-26:11:24	210625	-0:5	-0:28	B9	7.23	.00	344	35	274	2352 M	2200	5.73
680	3.0L	646	707	18:47:28	-34:21:50	210625	-0:6	-0:28	B9	7.23	.00	73	12	21	428	295	6.98
681	3.0C	642	699	18:47:28	-34:21:50	210625	-0:6	-0:28	B9	7.23	.00	186	39	33	2440	300	6.96
682	10.0C	650	697	18:47:28	-34:21:50	210625	-0:20	0:1	B9	7.23	.00	200	103	65	6570	390	6.67
683	30.0C	655	686	18:47:28	-34:21:50	210625?	-0:21	-4:30	A0	8.73	8.36	297	6	270	132 L	260	8.06
684	3.0L	466	653	18:47:29	-30:17:52	187337	0:5	-0:43	B9	9.00	.00	84	28	57	6697L	37	9.24
685	30.0C	126	533	18:47:34	-22:52:50	187337?	0:26	3:26	A0	7.88	.00	316	16	280	450	615	7.12
686	3.0L	490	672	18:47:44	-31:1:14	210631?	-0:18	-0:49	A0	7.88	.00	94	5	69	1187L	15	10.23
687	30.0C	503	647	18:47:44	-31:1:14	210631	-0:10	0:54	A0	8.67	.00	320	23	280	670	830	6.20
688	3.0L	466	664	18:47:46	-30:51:20	210632	-0:9	-2:1	A0	8.67	.00	54	3	32	63 L	36	9.27
689	10.0C	491	654	18:47:46	-30:51:20	210632	-0:9	-2:1	A0	8.67	.00	86	9	64	184 L	18	10.03
690	30.0C	484	649	18:47:46	-30:51:20	210632	0:7	-0:32	A0	8.67	.00	312	13	281	300	475	7.41
691	3.0L	510	675	18:47:58	-31:24:39	187355?	-0:7	5:22	B9	8.70	.00	242	12	216	276	370	7.68
692	3.0L	187	577	18:48:5	-24:26:49	187357	-0:14	2:57	A2	9.30	.00	268	12	240	276 M	390	7.62
693	3.0L	218	586	18:48:7	-25:3:9	187359	-0:5	1:26	A2	9.10	.00	297	6	260	177	300	7.91
694	3.0L	299	615	18:48:11	-25:46:59	NO	-0:4	-0:38				324	13	282	400	580	7.19
695	3.0L	274	610	18:48:30	-26:13:31	NO	0:6	-0:12				103	88	38	3114	440	6.54
696	10.0C	276	602	18:48:30	-26:13:31	NO	0:6	-0:12				213	127	90	7827	580	6.24
697	30.0C	281	594	18:48:30	-26:13:31	NO	-0:1	0:49				87	4	62	91?	13	10.38
698	30.0C	478	653	18:48:36	-30:33:34	210648	0:1	-0:24	A2	9.36	9.44	286	18	258	450 M	570	7.21
699	3.0L	750	750	18:48:40	-36:28:7	187369	-0:5	4:34	A0	8.80	.00	80	4	56	937L	15	10.23
700	30.0C	72	528	18:48:42	-21:55:7	187369	-0:5	4:34	A0	8.80	.00	80	4	56	937L	15	10.23

NRL REPORT 8487

SAGITTARIUS EAST, R.A. 18:34 DEC. -30:24 (6 FRAMES)

OBJECT NO.	EXP. FILTER	X	Y	R.A.	DEC.	SAO NO.	Δ R.A.	Δ DEC.	SPEC. TYPE	P MAG.	PEAK DEN.	NO. OF POINTS	BG	DENSITY VOLUME	CORR. V/E	UV MAG.
701	3.0L	437	634	18:48:47	-29:50:36	187374	-0:1	-0:8	85	9.30	308	30	274	780	960	6.64
702	10.0C	320	618	18:48:49	-27:11:55	187374	-0:18	0:53	85	9.30	129	19	45	585 L	100	8.16
703	30.0C	325	608	18:48:49	-27:11:55	187374	-0:18	0:53	85	9.30	150	38	95	1330	63	8.66
704	3.0L	273	615	18:48:51	-26:15:12	210656	0:9	3:55	A0	9.67	334	19	292	630	800	6.84
705	3.0L	440	671	18:49:11	-30:0:31	210656	0:9	3:55	A0	9.67	305	16	274	420	580	7.19
706	3.0L	167	590	18:49:16	-24:3:58	187384	0:20	0:32	B9	9.30	245	10	215	240	335	7.79
707	1.0L	479	680	18:49:29	-30:47:43	210663	-0:9	-0:31	B8	6.63	168	22	79	1015	1476	6.17
708	3.0L	479	681	18:49:29	-30:47:43	210663	-0:15	-0:10	B8	6.63	413	83	286	4460	4800	4.88
709	3.0C	475	673	18:49:29	-30:47:43	210663	-0:15	-0:10	B8	6.63	158	37	22	2197	990	5.65
710	10.0C	483	670	18:49:29	-30:47:43	210663	-0:16	-1:0	B8	6.63	328	85	34	8233	1200	5.45
711	30.0C	487	662	18:49:29	-30:47:43	210663	-0:17	0:5	B8	6.63	338	169	64	18917	1400	5.28
712	3.0L	601	717	18:49:30	-33:30:59						312	10	281	240	410	7.57
713	3.0L	502	691	18:49:36	-31:20:15	210673?	-0:12	-9:16	A0	10.50	314	7	286	170	330	7.80
714	3.0L	573	711	18:49:49	-32:45:26	210676	0:13	-1:10	A0	7.04	303	4	277	84	190	8.41
715	3.0L	775	778	18:50:1	-37:20:9	210676	0:9	-1:6	A0	7.04	292	10?	259?	207 L	350	7.74
716	10.0C	778	767	18:50:1	-37:20:9	210676	0:9	-1:6	A0	7.04	99	27	42	910 L	140	7.79
717	30.0C	781	763	18:50:1	-37:20:9	210676?	0:33	-0:12	A0	7.04	136	77	72	3102 L	150	7.71
718	3.0C	265	621	18:50:3	-26:16:22						95	62	26	2649	1200	5.45
719	3.0L	186	605	18:50:18	-24:38:44	187408?	0:2	7:39	B9	8.50	239	12	209	295	355	7.72
720	10.0C	195	598	18:50:18	-24:38:44	187408	0:10	0:31	B9	8.50	67	10	39	218 L	75	8.47
721	30.0C	201	588	18:50:18	-24:38:44	187408	-0:9	0:26	A9	8.50	116	84	68	2526	125	7.91
722	3.0L	488	696	18:50:25	-31:11:7	210684?	-0:3	6:26	A5	9.82	310	7	285	160	315	7.85
723	10.0C	518	700	18:50:37	-31:46:13	210690?	0:26	3:27	A3	9.37	99	23	33	886 M	140	7.79
724	30.0C	521	696	18:50:37	-31:46:13	210690?	-0:15	4:41	A3	9.37	127	57	67	2284 M	110	8.05
725	30.0C	620	714	18:50:28	-33:48:48	210692	-0:7	-0:40	A0	9.88	91	40	66	1567 L	17	10.09
726	3.0L	92	585	18:51:6	-22:38:1	187425	0:2	1:17	B8	8.00	228	42	182	1205	830	6.80
727	10.0C	95	575	18:51:6	-22:38:1	187425	0:6	0:53	B8	8.00	83	41	28	1365 L	210	7.35
728	30.0C	101	566	18:51:6	-22:38:1	187425	-0:7	0:25	B8	8.00	129	119	56	5008 L	270	7.07
729	10.0C	518	700	18:51:15	-31:41:41	210700?	-0:11	-1:6	B9	9.29	99	23	33	886	140	7.79
730	30.0C	521	696	18:51:15	-31:41:41	210700?	0:7	0:9	B9	9.29	127	57	67	2284	110	8.05
731	3.0L	462	698	18:51:16	-30:38:48	210701?	-0:6	5:12	A0	10.00	316	16	286	415	590	7.17
732	30.0C	473	681	18:51:16	-30:38:48	210701	-0:7	0:59	A0	10.00	103	10	66	2767 L	23	9.76
733	1.0L	197	620	18:51:18	-24:49:56	187431	0:8	1:2	B8	7.50	102	10	66	283	670	7.03
734	3.0L	196	621	18:51:18	-24:49:56	187431	0:6	1:37	B8	7.50	351	37	230	2100	1950	5.87
735	3.0C	192	614	18:51:18	-24:49:56	187431	0:7	0:15	B8	7.50	86	22	21	853	475	6.46
736	10.0C	200	612	18:51:18	-24:49:56	187431	0:11	1:11	B8	7.50	184	64	32	3975	530	6.34
737	30.0C	206	601	18:51:18	-24:49:56	187431	-0:13	1:21	B8	7.50	263	179	73	12741	920	5.73
738	1.0L	146	605	18:51:26	-23:47:3	187433	0:7	1:15	A0	8.80	93	8	65	178 M	450	7.47
739	3.0L	143	606	18:51:26	-23:47:3	187433	-0:9	-4:5	A0	8.80	210	0	196	0	200	8.35
740	1.0L	491	705	18:51:27	-31:11:32	210704	-0:10	0:22	A0	8.54	113	10	77	272 M	600	7.15
741	3.0L	490	706	18:51:27	-31:11:32	210704	-0:12	0:57	A0	8.54	377	29	295	1600	1600	6.08
742	3.0C	486	699	18:51:27	-31:11:32	210704	-0:11	-0:24	A0	8.54	78	14	20	525 M	330	6.85
743	10.0C	495	696	18:51:27	-31:11:32	210704	-0:14	-1:39	A0	8.54	188	45	35	2802 M	350	6.79
744	30.0C	499	688	18:51:27	-31:11:32	210704	-0:14	-0:34	A0	8.54	219	108	67	7536 M	470	6.47
745	1.0L	296	652	18:51:31	-26:57:13	187438	-0:4	2:1	B8	7.76	115	23	78	635 M	950	6.65
746	3.0C	291	646	18:51:31	-26:57:13	187438	0:2	0:49	B8	7.76	88	34	26	1215	620	6.17
747	10.0C	299	644	18:51:31	-26:57:13	187438	0:2	0:41	B8	7.76	228	282	45	10800 M	2300	4.74
748	30.0C	303	636	18:51:31	-26:57:13	187438	-0:3	1:45	B8	7.76	334	121	179	16980 M	1950	4.92
749	3.0L	221	634	18:51:39	-25:21:22	187441	0:11	0:11	A0	9.00	270	11	250	240	380	7.63
750	1.0L	267	651	18:52:9	-26:21:38	187448	0:3	1:17	B3	2.14	472	979	100	108142	41000	.03

PAGE, CARRUTHERS, AND HECKATHORN

SAGITTARIUS EAST, R.A. 18:34 DEC. -30:24 (15 FRAMES)

OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAO NO.	Δ R.A.	Δ DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	BG	DENSITY VOLUME	CORR. V/E	UV MAG.
751	3.0C	266	653	18:52:9	-26:21:38	187448	0:6	1:33	83	2.14	.00	511	5600	2737	240000	560000	-31
752	3.0C	261	643	18:52:9	-26:21:38	187448	-0:7	2:25	83	2.14	.00	510	1187	26	182187	180000	-02
753	10.0C	269	642	18:52:9	-26:21:38	187448	0:1	1:46	83	2.14	.00	504	3502	38	452327	1250000	-38
754	30.0C	276	633	18:52:9	-26:21:38	187448	-0:14	-0:1	83	2.14	.00	484	5880	93	815223	1325000	-67
755	3.0C	529	726	18:52:18	-32:5:17	210720	-0:14	-0:37	89	8.87	8.43	326	28	280	900 H	1050	6.54
756	10.0C	533	716	18:52:18	-32:5:17	210720	-0:9	-2:22	89	8.87	8.43	69	12	66	3435 L	75	8.47
757	30.0C	537	707	18:52:18	-32:5:17	210720	-0:20	0:36	89	8.87	8.43	104	36	66	1069 L	49	8.93
758	3.0C	238	641	18:52:32	-25:51:12							83	56	25	2325	1150	5.49
759	3.0L	471	719	18:52:46	-30:52:33							312	9	281	234	400	7.59
760	1.0L	114	614	18:52:58	-23:14:20	187468	0:12	1:58	88	5.89	.00	137	41	60	1813	2400	5.64
761	3.0L	114	615	18:52:58	-23:14:20	187468	0:8	1:21	88	5.89	.00	407	82	201	7500 H	8600	4.25
762	3.0C	109	608	18:52:58	-23:14:20	187468	0:11	1:8	88	5.89	.00	181	73	20	4552	2120	4.82
763	10.0C	118	605	18:52:58	-23:14:20	187468	0:6	0:8	88	5.89	.00	358	172	32	15317	2700	4.56
764	30.0C	123	597	18:52:58	-23:14:20	187468	-0:0	0:29	89	5.89	.00	389	344	64	41687	3300	4.34
765	3.0C	701	787	18:52:59	-35:56:15	210730	0:13	-0:27	89	8.90	8.55	314	16	278	435	595	7.16
766	10.0C	705	775	18:52:59	-35:56:15	210730	0:8	-1:33	89	8.90	8.55	71	13	37	359 L	79	8.41
767	30.0C	708	770	18:52:59	-35:56:15	210730	0:20	0:1	89	8.90	8.55	106	41	70	1131 L	51	8.89
768	1.0L	769	811	18:53:17	-37:24:32	210734	0:18	-1:58	85	5.41	.00	387	122	76	12741 H	30500	2.87
769	3.0L	772	812	18:53:17	-37:24:32	210734	0:20	0:9	85	5.41	.00	461	276	276	24930 H	39000	2.60
770	5C	772	805	18:53:17	-37:24:32	210734	0:25	-2:4	85	5.41	.00	270	71	28	5720 H	16000	2.62
771	3.0C	764	804	18:53:17	-37:24:32	210734	0:14	-1:22	85	5.41	.00	434	161	21	19344	10600	3.07
772	10.0C	771	802	18:53:17	-37:24:32	210734	0:23	-0:25	85	5.41	.00	440	341	42	47831	9200	3.22
773	30.0C	776	795	18:53:17	-37:24:32	210734	0:26	-0:55	85	5.41	.00	409	636	74	80265	7200	3.49
774	3.0C	839	829	18:53:21	-38:47:11	210737	-0:21	-6:49	89	8.56	8.27	277	11	251	264	380	7.65
775	30.0C	842	817	18:53:21	-38:47:11	210737	0:18	-2:55	89	8.56	8.27	98	18	72	4072L	24	9.71
776	3.0L	153	635	18:53:39	-24:4:7	187482	0:6	-0:25	A2	9.10	.00	230	21	196	5337H	500	7.35
777	1.0L	584	756	18:53:40	-33:23:45	210749	-0:7	0:7	89	7.16	.00	113	11	75	308	734	6.93
778	3.0L	583	757	18:53:40	-33:23:45	210749	-0:2	0:24	89	7.16	.00	386	60	280	2820	2800	5.47
779	3.0C	579	749	18:53:40	-33:23:45	210749	-0:13	-0:21	89	7.16	.00	99	20	21	887	475	6.46
780	10.0C	587	747	18:53:40	-33:23:45	210749	-0:2	-1:1	89	7.16	.00	240	51	36	3969	505	6.39
781	30.0C	592	738	18:53:40	-33:23:45	210749	-0:16	-0:31	89	7.16	.00	259	113	70	9467	650	6.11
782	1.0L	647	777	18:53:53	-34:48:11							106	13	74	338	670	7.03
783	10.0C	398	703	18:54:11	-29:16:35	NO*	-0:3	-0:22				67	8	34	223	68	8.58
784	30.0C	402	696	18:54:11	-29:16:35	NO*	0:3	0:22				107	24	74	649	48	8.96
785	5C	257	687	18:54:12	-26:22:59							85	67	26	2559	1200	5.45
786	3.0L	09	635	18:54:34	-23:16:24	187499	0:17	1:36	A0	9.30	.00	203	7	179	1572	205	8.32
787	10.0C	844	842	18:54:47	-39:1:8	210764	0:22	-3:24	A0	8.94	8.63	66	5	42	111 L	50	8.91
788	30.0C	849	834	18:54:47	-39:1:8	210764	0:19	-2:23	A0	8.94	8.63	104	41	72	111	50	8.99
789	3.0L	212	670	18:54:50	-25:28:7	187508	0:14	3:27	A5	9.30	.00	257	6	234	1197	230	8.20
790	1.0L	620	783	18:54:55	-34:20:15	210769	0:12	3:3	89	8.96	8.57	99	4	75	90	722	6.95
791	3.0L	619	784	18:54:55	-34:20:15	210769	0:14	3:30	89	8.96	8.57	362	40	281	1755 H	1850	5.32
792	3.0C	615	777	18:54:55	-34:20:15	210769	0:14	2:3	89	8.96	8.57	81	18	21	677 H	390	6.67
793	10.0C	623	774	18:54:55	-34:20:15	210769	0:14	2:6	89	8.96	8.57	232	54	38	3832 H	500	6.40
794	30.0C	628	764	18:54:55	-34:20:15	210769	0:2	3:46	89	8.96	8.57	241	121	71	9215 H	630	6.15
795	3.0L	370	715	18:55:4	-28:49:13	187511	-0:13	2:20	89	8.68	.00	353	32	276	1760	1700	6.02
796	3.0C	366	707	18:55:4	-28:49:13	187511	-0:12	0:58	89	8.68	.00	50	4	24	91 L	162	7.63
797	10.0C	374	705	18:55:4	-28:49:13	187511	-0:8	0:41	89	8.68	.00	111	29	38	1170	165	7.61
798	30.0C	379	696	18:55:4	-28:49:13	187511	-0:21	1:14	89	8.68	.00	152	72	78	3413	170	7.58
799	10.0C	652	782	18:55:8	-34:54:13	210772	0:1	-1:37	A0	8.29	8.12	74	15	38	415 L	84	8.35
800	30.0C	655	774	18:55:8	-34:54:13	210772	0:0	-0:36	A0	8.29	8.12	109	38	72	1072 L	49	8.93

NRL REPORT 8487

SAGITTARIUS EAST, R.A. 18:34 DEC. -30:24 (6 FRAMES)

OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAO NO.	Δ	R.A.	Δ	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	BG	DENSITY VOLUME	CORR. V/E	UV MAG.
801	3.0L	547	767	18:55:9	-32:36:23	210774?	0: 7	-5:41	A5	9.96	9.77	310	6	282	150	270	8.02	
802	1.0L	620	783	18:55:10	-34:16:57	210776/	-0: 3	-0:15	B9	7.17	.00	99	4	75	90 L	722	6.95	
803	3.0C	619	784	18:55:10	-34:16:57	210776/	0: 0	0:12	B9	7.17	.00	362	40	281	1755	1850	5.92	
804	3.0C	615	777	18:55:10	-34:16:57	210776/	-0: 0	-1:14	B9	7.17	.00	81	18	21	677	390	6.67	
805	10.0C	623	774	18:55:10	-34:16:57	210776/	-0: 0	-1:12	B9	7.17	.00	232	54	38	3832	500	6.40	
806	30.0C	628	764	18:55:10	-34:16:57	210776/	-0: 13	0:28	B9	7.17	.00	241	121	71	9215	630	6.15	
807	3.0L	292	697	18:55:11	-27: 5:37	187513	0: 6	-1:10	B9	8.80	.00	325	10	287	300	470	7.42	
808	10.0C	293	684	18:55:11	-27: 5:37	187513	-0: 2	1:52	B9	8.80	.00	76	7	49	169 L	54	8.83	
809	30.0C	299	673	18:55:11	-27: 5:37	187513?	-0:26	2:29	B9	8.80	.00	144	85	100	2600	130	7.87	
810	1.0L	188	664	18:55:16	-24:56:42	187517	0: 4	1:35	A0	6.60	.00	90	8	65	177 L	867	6.75	
811	3.0L	187	665	18:55:16	-24:56:42	187517	0: 1	2:12	A0	6.60	.00	320	44	226	2200	2300	5.69	
812	3.0C	183	658	18:55:16	-24:56:42	187517	0: 8	0:28	A0	6.60	.00	76	24	20	819	470	6.47	
813	10.0C	191	656	18:55:16	-24:56:42	187517	0:12	1:30	A0	6.60	.00	171	63	32	3706	459	6.49	
814	30.0C	195	650	18:55:16	-24:56:42	187517	0:17	2:19	A0	6.60	.00	239	135	71	10642	840	5.83	
815	10.0C	76	622	18:55:24	-22:35:53	187519	0: 7	3:23	A2	6.04	.00	56	15	29	353 L	82	8.37	
816	30.0C	82	615	18:55:24	-22:35:53	187519	0: 6	3:24	A2	6.04	.00	98	75	55	2306 L	115	8.00	
817	3.0L	328	713	18:55:35	-28: 1: 5	187522?	0: 9	5:43	A3	9.30	.00	294	5	270	110	245	8.13	
818	3.0L	257	694	18:55:45	-26:25:28	NO	0:12	0:22				345	123	273	5140	7100	4.46	
819	10.0C	262	682	18:55:45	-26:25:28	NO	-0: 1	-0:13				97	74	45	2500	350	6.79	
820	30.0C	267	673	18:55:45	-26:25:28	NO	-0:10	-0: 8				217	123	120	4180	290	6.99	
821	3.0L	197	675	18:55:51	-25:12: 8	187532	0: 5	2:14	B8	8.40	.00	312	36	228	1422 H	1250	6.35	
822	3.0C	193	668	18:55:51	-25:12: 8	187532	0: 7	2: 2	B8	8.40	.00	54	12	20	305 L	285	7.01	
823	10.0C	201	666	18:55:51	-25:12: 8	187532	0:10	1:53	B8	8.40	.00	118	44	35	1983	280	7.03	
824	30.0C	206	658	18:55:51	-25:12: 8	187532	0: 3	2:10	B8	8.40	.00	191	107	77	6203	390	6.67	
825	3.0L	250	693	18:55:58	-26:15:41	187534	0: 4	-0:39	A0	8.50	.00	279	4	268	92 L	200	8.35	
826	3.0L	301	711	18:56:12	-27:14:47	187536?	0: 2	-7:16	A0	9.20	.00	302	5	280	110	230	8.20	
827	3.0L	428	749	18:56:24	-30: 9:31	187542	-0:16	0:55	B8	8.60	.00	291	13	280	400	590	7.17	
828	3.0L	237	690	18:56:25	-26: 0:54	187542	-0: 3	1:25	B8	8.60	.00	79	24	40	677 L	115	8.00	
829	10.0C	239	682	18:56:25	-26: 0:54	187542	-0:20	3: 6	B8	8.60	.00	149	102	100	3260	175	7.55	
830	30.0C	244	672	18:56:25	-26: 0:54	187542	0: 4	5:31	A5	9.08	9.05	370	48	280	1980 H	2100	5.78	
831	3.0L	527	777	18:56:34	-32:27:31	210797?	0: 3	4:10	A5	9.08	9.05	163	38	38	2260 H	370	6.73	
832	10.0C	532	766	18:56:34	-32:27: 31	210797?	-0: 3	5:31	A5	9.08	9.05	194	84	74	5348 H	310	6.92	
833	30.0C	536	758	18:56:35	-26: 4:43	187545	-0:11	-2:39	A2	9.00	.00	282	7	257	147	280	7.98	
834	3.0L	242	694	18:56:47	-32:22:33	210798	-0:14	0:55	A0	8.57	8.11	101	5	75	142	639	7.08	
835	1.0L	528	775	18:56:47	-32:22:33	210798/	-0:10	0:33	A0	8.57	8.11	370	48	280	1980 H	2100	5.78	
836	3.0C	527	777	18:56:47	-32:22:33	210798/	-0:14	0:41	A0	8.57	8.11	67	11	22	334	270	7.07	
837	3.0C	523	769	18:56:47	-32:22:33	210798/	-0:10	-0:49	A0	8.57	8.11	163	38	38	2260 H	370	6.73	
838	10.0C	532	766	18:56:47	-32:22:33	210798/	-0:16	0:33	A0	8.57	8.11	194	84	74	5348 H	310	6.92	
839	30.0C	536	758	18:56:47	-32:22:33	210798/	-0:16	0:33	A0	8.57	8.11	266	36	209	1161 H	1000	6.59	
840	3.0L	159	675	18:56:50	-24:28: 6	187551	0: 5	2:12	B8	8.40	.00	44	4	22	81 L	52	7.70	
841	3.0C	154	668	18:56:50	-24:28: 6	187551	0: 8	1:59	B8	8.40	.00	98	42	31	1670	238	7.21	
842	10.0C	162	666	18:56:50	-24:28: 6	187551	0:10	1:53	B8	8.40	.00	161	112	64	5817	340	6.82	
843	30.0C	168	656	18:56:50	-24:28: 6	187551	-0: 2	2:31	B8	8.40	.00	305	5	275	1647L	300	7.91	
844	3.0L	335	730	18:56:51	-28: 7:14	187552	0: 8	-3:12	A2	7.71	.00	313	5	286	107?	235	6.17	
845	3.0L	586	794	18:57: 2	-33:40:49	210806	-0:16	0:12	A0	8.87	.00	122	16	79	486	923	6.68	
846	1.0L	258	704	18:57:3	-26:27:46	NO	-0:10	-1:21				314	15	277	450	871	6.74	
847	3.0L	254	707	18:57:3	-26:27:46	NO	0: 5	1:43				70	6	45	135	53	8.05	
848	10.0C	259	698	18:57:3	-26:27:46	NO	0: 6	-0:22	A0	8.20	.00	85	16	41	558	97	8.19	
849	10.0C	315	715	18:57:25	-27:42:57	187563	-0:11	2:50	A0	8.20	.00	138	67	85	2394	120	7.96	
850	30.0C	320	706	18:57:25	-27:42:57	187563?	-0:23	3:23	A0	8.20	.00							

PAGE, CARRUTHERS, AND HECKATHORN

SAGITTARIUS EAST. R.A. 18:34 DEC. -30:24 (6 FRAMES)

OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAO NO.	Δ R.A.	Δ DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	BG	DENSITY VOLUME	CORR. V/E	UV MAG.
851	30.0C	114	656	18:57:37	-23:20:51	1875667	0:31	-2:54	A3	9.40	.00	94	6	57	1797L	18	10.03
852	1.0L	743	851	18:57:40	-37:7:54	2108157	0:24	-1:55	88	6.84	.00	202	65	77	3646 H	6015	4.64
853	3.0L	741	852	18:57:40	-37:7:54	2108157	0:26	-0:3	88	6.84	.00	443	150	283	13500 H	21000	3.27
854	.5C	746	845	18:57:40	-37:7:54	2108157	0:30	-2:0	88	6.84	.00	93	37	28	1427 H	4150	4.09
855	3.0C	738	844	18:57:40	-37:7:54	2108157	0:18	-2:31	88	6.84	.00	301	99	32	7971 H	4000	4.13
856	10.0C	746	842	18:57:40	-37:7:54	2108157	0:27	-1:29	88	6.84	.00	426	237	43	32643 H	6400	3.62
857	30.0C	750	834	18:57:40	-37:7:54	2108157	0:26	-0:30	88	6.84	.00	400	330	77	47036 H	4100	4.10
858	1.0L	743	851	18:57:41	-37:7:57	2108167	0:23	-1:52	88	6.62	.00	202	65	77	3646 H	6015	4.64
859	3.0L	741	852	18:57:41	-37:7:57	2108167	0:25	0:0	88	6.62	.00	443	150	283	13500 H	21000	3.27
860	.5C	746	845	18:57:41	-37:7:57	2108167	0:29	-1:57	88	6.62	.00	93	37	28	1427 H	4150	4.09
861	3.0C	738	844	18:57:41	-37:7:57	2108167	0:17	-2:27	88	6.62	.00	301	99	32	7971 H	4000	4.13
862	10.0C	746	842	18:57:41	-37:7:57	2108167	0:17	-2:27	88	6.62	.00	426	237	43	32643 H	6400	3.62
863	30.0C	750	834	18:57:41	-37:7:57	2108167	0:16	-1:25	88	6.62	.00	400	330	77	47036 H	4100	4.10
864	1.0L	743	851	18:57:42	-26:16:0	2108167	0:25	-0:27	88	6.62	.00	103	8	78	187	520	7.31
865	30.0C	513	771	18:58:15	-31:57:59							131	7	74	2397	19	9.97
866	3.0L	734	855	18:58:16	-36:57:44	2108287	0:17	-3:16	A0	6.88	.00	349	19	281	682	820	6.81
867	3.0C	728	848	18:58:16	-36:57:44	2108287	0:22	-1:53	A0	6.88	.00	66	26	23	782	450	6.52
868	10.0C	737	845	18:58:16	-36:57:44	2108287	0:24	-2:37	A0	6.88	.00	228	57	41	54330	748	5.96
869	30.0C	742	835	18:58:16	-36:57:44	2108287	0:5	-1:28	A0	6.88	.00	254	126	77	11722	950	5.70
870	3.0L	734	855	18:58:18	-36:56:51	2108297	0:15	-4:9	B2	.00	.00	349	19	281	682	820	6.81
871	3.0C	728	848	18:58:18	-36:56:51	2108297	0:20	-2:46	B2	.00	.00	66	26	23	782	450	6.52
872	10.0C	737	845	18:58:18	-36:56:51	2108297	0:22	-3:20	B2	.00	.00	228	57	41	54330	748	5.96
873	30.0C	742	835	18:58:18	-36:56:51	2108297	0:3	-2:21	B2	.00	.00	254	126	77	11722	950	5.70
874	3.0L	685	842	18:58:25	-35:56:27	210833	0:17	-1:16	A0	8.07	7.80	315	15	280	403	575	7.20
875	10.0C	689	831	18:58:25	-35:56:27	210833	0:13	-1:9	A0	8.07	7.80	96	22	48	676	108	8.07
876	30.0C	693	824	18:58:25	-35:56:27	210833	0:18	-0:29	A0	8.07	7.80	130	69	73	2682	125	7.91
877	3.0L	232	716	18:58:35	-26:4:38	187583	0:7	-0:9	A0	8.20	.00	260	21	234	4737	550	7.25
878	3.0L	677	843	18:58:45	-35:47:43	210841	0:16	-0:40	A0	9.83	9.48	304	4	2827	827	190	8.41
879	3.0L	266	734	18:58:48	-27:17:14	1875877	0:12	3:32	A0	9.40	.00	289	20	258	540 H	865*	6.75
880	3.0L	284	740	18:58:48	-27:17:14	1875877	0:20	3:57	A0	9.40	.00	284	5	258	115		
881	3.0L	286	734	18:58:50	-27:10:0	1875897	0:14	-3:42	A3	9.50	.00	289	20	258	540 H	1800*	
882	3.0L	279	738	18:58:50	-27:10:0	1875897	0:15	-3:25	A3	9.50	.00	286	24	258	745 H		
883	3.0L	284	740	18:58:50	-27:10:0	1875897	0:19	-3:17	A3	9.50	.00	284	5	258	115		
884	3.0L	114	692	18:59:12	-23:46:2	1875957	0:19	5:29	A0	8.60	.00	221	27	190	647 H	570	7.21
885	10.0C	119	682	18:59:12	-23:46:2	1875957	0:16	3:10	A0	8.60	.00	62	17	30	452	90	8.27
886	30.0C	125	672	18:59:12	-23:46:2	1875957	0:1	4:9	A0	8.60	.00	108	78	60	2519	120	7.96
887	3.0L	626	832	18:59:14	-34:42:18	210832	0:4	0:13	89	7.21	.00	389	52	282	2650	2700	5.51
888	3.0C	622	824	18:59:14	-34:42:18	210832	0:1	-0:58	89	7.21	.00	82	22	22	826	445	6.48
889	10.0C	630	822	18:59:14	-34:42:18	210832	0:5	-1:10	89	7.21	.00	244	58	41	4401	365	5.23
890	30.0C	634	815	18:59:14	-34:42:18	210832	0:10	-0:30	89	7.21	.00	258	122	75	9925	-30	5.99
891	3.0L	693	855	18:59:21	-36:10:10	2108537	0:20	-0:55	A0	7.22	.00	320	5	287	141 L	280	7.98
892	10.0C	697	844	18:59:21	-36:10:10	2108537	0:21	-2:19	A0	7.22	.00	91	26	43	816 L	130	7.87
893	30.0C	701	836	18:59:21	-36:10:10	2108537	0:21	-2:19	A0	7.22	.00	127	63	75	2353 L	115	8.00
894	30.0C	739	845	18:59:23	-36:59:29	2108537	0:15	0:9	A0	7.22	.00	132	13	74	4547	24	9.71
895	1.0L	409	773	18:59:25	-29:57:12	187600	0:17	2:11	A2	2.71	.00	176	29	74	1490 L	1900	5.89
896	3.0L	408	775	18:59:25	-29:57:12	187600	0:18	2:51	A2	2.71	.00	410	73	285	4940 L	5900	4.66
897	.5C	412	767	18:59:25	-29:57:12	187600	0:10	1:36	A2	2.71	.00	76	16	25	510 L	2000	4.89
898	3.0C	404	767	18:59:25	-29:57:12	187600	0:18	1:27	A2	2.71	.00	246	54	23	3996 L	1700	5.07
899	10.0C	412	764	18:59:25	-29:57:12	187600	0:19	1:34	A2	2.71	.00	386	118	38	13056 L	3200	4.38
900	30.0C	417	756	18:59:25	-29:57:12	187600	0:21	1:24	A2	2.71	.00	375	251	77	27363 L	2400	4.69

## SAGITTARIUS EAST, R.A. 18:34 DEC. -30:24 (6 FRAMES)

OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAO NO.	A R.A.	A DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	BG	DENSITY VOLUME	CORR. V/E	UV MAG.
901	3.0L	641	839	18:58:35	-35:33:38	187606	0:15	-3:32	A0	9.00	.00	310	9	283	229	400	7.59
902	3.0L	246	739	18:59:45	-26:25:56	210858	-0:17	-1:49	A5	10.00	10.40	276	21	244	466	H	7.21
903	3.0L	758	874	18:59:48	-37:33:35	210858	-0:17	-1:49	A5	10.00	10.40	300	12	265	335	H	7.41
904	3.0L	284	751	18:59:54	-27:12:15	1876087	0:12	-6:2	A3	9.00	.00	284	8	260	176		7.84
905	1.0L	634	841	19:0:1	-34:55:19	NO						108	7	73	202	535	7.28
906	3.0L	394	781	19:0:23	-29:41:18	1876147	-0:22	1:59	A0	8.60	.00	328	22	283	674	H	6.77
907	10.0C	393	774	19:0:23	-29:41:18	1876147	0:2	5:49	A0	8.60	.00	78	14	41	397	85	8.33
908	30.0C	402	762	19:0:23	-29:41:18	1876147	-0:28	2:5	A0	8.60	.00	111	22	82	550	L	9.54
909	1.0L	729	872	19:0:26	-37:0:21	NO						184	21	78	1177	1480	6.17
910	3.0L	477	809	19:0:52	-31:31:53	210876	-0:14	0:1	A0	8.98	8.55	329	13	292	351?	535	7.28
911	10.0C	480	798	19:0:52	-31:31:53	210876	-0:16	1:21	A0	8.98	8.55	66	5	40	118	L	8.89
912	3.0L	257	749	19:1:3	-26:46:36	1876297	-0:26	0:14	A0	9.40	.00	282	4	258	88		6.91
913	3.0L	260	757	19:1:3	-26:46:36	1876297	0:8	-5:41	A0	9.40	.00	281	4	258	88		750*
914	3.0L	251	755	19:1:3	-26:46:36	1876297	0:15	5:31	A0	9.40	.00	282	4	258	88		
915	1.0L	457	806	19:1:12	-31:7:19	210883	-0:19	1:14	A0	5.53	.00	140	26	72	958	1697	6.02
916	3.0L	456	807	19:1:12	-31:7:19	210883	-0:20	1:56	A0	5.53	.00	414	69	284	4481	5200	4.80
917	3.0C	452	800	19:1:12	-31:7:19	210883	-0:18	1:43	A0	5.53	.00	167	45	22	2522	1140	5.50
918	10.0C	460	797	19:1:12	-31:7:19	210883	-0:13	1:32	A0	5.53	.00	356	101	42	9825	1600	5.13
919	30.0C	485	789	19:1:12	-31:7:19	210883	-0:21	1:39	A0	5.53	.00	350	211	83	21000	1900	4.94
920	30.0C	731	867	19:1:22	-36:55:11	1876887	5:18	-2:14	A0	8.19	8.04	106	31	76	743	L	9.27
921	3.0L	275	767	19:1:31	-2:12:21	187639	0:8	-0:59	A2	8.80	.00	283	8	255	192	330	7.80
922	3.0L	451	810	19:1:33	-31:1:26	210894	-0:16	1:9	A0	8.73	8.29	322	8	293	158	320	7.84
923	3.0L	774	906	19:1:35	-38:2:13	2108957	0:36	-4:2	B9	7.21	.00	318	15	274	452	L	7.17
924	3.0C	770	898	19:1:35	-38:2:13	2108957	0:31	4:56	B9	7.21	.00	44	4	22	86	L	7.64
925	10.0C	779	895	19:1:35	-38:2:13	2108957	0:30	-5:10	B9	7.21	.00	134	66	43	3206	427	6.57
926	30.0C	782	887	19:1:35	-38:2:13	2108957	0:30	-4:15	B9	7.21	.00	178	145	75	7766	520	6.36
927	3.0L	179	739	19:1:41	-25:18:24	1876447	0:6	5:50	A0	6.87	.00	248	20	2147	5127L	540	7.27
928	10.0C	185	730	19:1:41	-25:18:24	1876447	0:9	3:11	A0	6.87	.00	70	20	32	561	L	8.10
929	30.0C	190	722	19:1:41	-25:18:24	1876447	0:2	3:26	A0	6.87	.00	114	75	65	2667	L	7.96
930	30.0C	726	876	19:2:6	-36:57:5	2109077	-0:18	-0:23	A2	9.71	9.96	69	5	46	105	48	8.36
931	30.0C	731	867	19:2:6	-36:57:5	2109077	-0:17	-0:21	A2	9.71	9.96	106	31	76	743	36	9.27
932	1.0L	361	797	19:2:37	-29:9:29	187661	-0:19	3:9	B8	6.92	.00	109	14	72	382	749	6.91
933	3.0C	360	798	19:2:37	-29:9:29	187661	-0:20	3:52	B8	6.92	.00	394	53	278	3000	2850	5.45
934	3.0C	356	791	19:2:37	-29:9:29	187661	-0:18	3:39	B8	6.92	.00	98	25	22	1038	540	6.32
935	10.0C	365	788	19:2:37	-29:9:29	187661	-0:21	2:38	B8	6.92	.00	260	63	38	5308	683	6.06
936	30.0C	369	781	19:2:37	-29:9:29	187661	-0:16	3:21	B8	6.92	.00	297	145	80	13551	1130	5.51
937	3.0L	480	834	19:2:55	-31:46:20	210925	-0:13	2:22	A0	8.15	7.91	324	13	293	321	500	7.35
938	3.0C	476	826	19:2:55	-31:46:20	210925	-0:18	1:14	A0	8.15	7.91	49	5	22	118	L	7.42
939	10.0C	485	823	19:2:55	-31:46:20	210925	-0:14	-0:8	A0	8.15	7.91	123	31	41	1391	185	7.48
940	30.0C	499	815	19:2:55	-31:46:20	210925	-0:13	2:4	A0	8.15	7.91	161	78	79	3853	195	7.43
941	1.0L	275	782	19:3:12	-27:21:52	187672	-0:4	2:41	B8	7.17	.00	94	8	59	180	L	7.31
942	3.0L	274	783	19:3:12	-27:21:52	187672	-0:6	3:23	B8	7.17	.00	359	34	275	1625	1600	6.08
943	3.0C	278	775	19:3:12	-27:21:52	187672	-0:10	2:17	B8	7.17	.00	77	22	21	719	L	4.15
944	10.0C	278	773	19:3:12	-27:21:52	187672	-0:5	3:26	B8	7.17	.00	171	58	39	3376	445	6.60
945	30.0C	282	767	19:3:12	-27:21:52	187672	0:0	4:11	B8	7.17	.00	239	126	83	9486	750	5.96
946	3.0L	436	827	19:3:20	-30:44:20	210935	-0:13	-3:58	A0	9.65	10.65	306	5	282?	114?	240	8.15
947	3.0L	286	797	19:3:49	-27:44:43	1876887	0:11	6:38	A0	3.42	.00	286	12	261	274	420	7.54
948	3.0L	123	748	19:3:50	-24:16:21	1876847	0:5	5:16	B9	8.70	.00	214	4	192?	837L	150	8.66
949	3.0L	140	758	19:4:11	-24:36:8	187694	0:7	1:49	A0	8.00	.00	223	5	200?	1072L	180	8.46
950	3.0L	123	748	19:4:13	-24:12:36	187696/	-0:19	1:31	A2	9.50	.00	214	4	192?	83?	150	8.66

## PAGE, CARRUTHERS, AND HECKATHORN

SAGITTARIUS WEST, R.A. 18.34 DEC. -30.24 (6 FRAMES)

OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	S.A.O. NO.	Δ R.A.	Δ DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	B.G.	DENSITY VOLUME	CORR. V/E	UV MAG.
1	1.0L	750	89	17:49:30	-31:37:28	209398	0: 0	0:51	88	8.62	8.33	134	3	112	66	1587	6.09
2	3.0L	748	92	17:49:30	-31:37:28	209398	0: 4	-0:25	88	8.62	8.33	475	34	446	885 H	9458	4.14
3	3.0C	745	82	17:49:30	-31:37:28	209398	-0:12	0:18	88	8.62	8.33	57	13	27	260	151E	7.11
4	10.0C	751	80	17:49:30	-31:37:28	209398	-0: 0	2: 3	88	8.62	8.33	111	23	53	904	151E	7.71
5	10.0C	684	65	17:50:53	-30:12:35	NO	0: 1	-1: 4				85	11	58	2647	65	8.63
6	30.0C	688	57	17:50:53	-30:12:35	NO	-0: 1	1: 5				153	60	116	1821	100	8.16
7	10.0C	665	60	17:51:11	-29:50:35	185914	-0: 2	-0: 0	88	9.20	.00	96	26	55	8030	187	7.47
8	30.0C	669	54	17:51:11	-29:50:35	185914	0:10	2: 4	88	9.20	.00	171	98	120	4211 H	300	6.96
9	3.0L	838	159	17:51:14	-33:56: 0	209477	0:10	2: 4	AD	8.80	8.56	420	6	397	120	345	7.75
10	3.0L	838	159	17:51:19	-33:56:51	209477	0: 5	3:25	89	7.88	7.47	420	6	397	120 L	345	7.75
11	3.0L	838	159	17:51:22	-33:53:48	209450	0: 2	0:22	AD	7.71	7.35	420	6	397	120	345	7.75
12	3.0L	652	73	17:51:31	-29:42:58	NO	0: 7	2:33				468	314	365	236937	37000	2.65
13	10.0C	660	61	17:51:31	-29:42:58	NO	-0: 7	-2:32				83	13	58	286	70	8.55
14	10.0C	811	132	17:51:37	-33:11:15	209456	-0:18	-0: 6	83	9.06	9.00	88	23	48	750 L	194	7.43
15	10.0C	814	128	17:51:37	-33:11:15	209456	0: 4	2: 9	83	9.06	9.00	143	29	107	799 L	38E	9.21
16	10.0C	855	163	17:51:55	-34:13:39	209460	0: 9	-2:59	AD	.00	.00	88	16	56	400	77E	8.44
17	3.0L	747	124	17:52: 9	-31:55:17	NO	0: 7	-0:44				450	27	419?	683	1370	6.25
18	3.0L	591	53	17:52:10	-28:20:28	185937	0: 7	-0:44	89	9.10	.00	463	6	434	160?	495	7.36
19	10.0C	595	39	17:52:10	-28:20:28	185937	-0: 7	-0: 7	89	9.10	.00	84	8	57	191 L	57	8.77
20	30.0C	600	31	17:52:10	-28:20:28	185937	-0: 5	1: 9	89	9.10	.00	148	14	115	3927L	25	9.67
21	1.0L	689	97	17:52:19	-30:32:41	209474	0: 1	2:10	83	8.60	8.70	124	5	112	168	409	7.57
22	3.0L	689	100	17:52:19	-30:32:41	209474	0: 7	-5:17	83	8.60	8.70	472	33	439	790	844	6.78
23	3.0C	682	91	17:52:19	-30:32:41	209474	0: 5	-0:33	83	8.60	8.70	60	17	26	435 L	305	6.94
24	10.0C	690	88	17:52:19	-30:32:41	209474	0: 4	-1:41	83	8.60	8.70	149	66	54	31680	437	6.55
25	30.0C	695	81	17:52:20	-30:40:32	209475	0:10	-0:46	83	8.60	8.70	245	150	122	7600	750	5.96
26	3.0L	689	100	17:52:20	-30:40:32	209474	0: 6	2:35	89	8.86	8.65	472	33	439	790 H	844	6.78
27	1.0L	689	97	17:52:31	-30:33:51	209480	0:13	1:30	AD	7.54	7.21	124	5	112	168	409	7.57
28	3.0L	689	100	17:52:31	-30:33:51	209480	-0: 6	-4: 6	AD	7.54	7.21	472	33	439	790	844	6.78
29	3.0C	682	91	17:52:31	-30:33:51	209480	-0: 7	0:37	AD	7.54	7.21	60	17	26	435 L	305	6.94
30	10.0C	690	88	17:52:31	-30:33:51	209480	-0: 8	-0:31	AD	7.54	7.21	149	66	54	31680	437	6.55
31	30.0C	695	81	17:52:31	-30:33:51	209480	-0: 1	0:23	AD	7.54	7.21	245	150	122	7600	750	5.96
32	3.0L	846	178	17:52:36	-34:16:46	209482	0: 5	3:59	89	8.06	7.71	410	13	384	290?	645	7.07
33	30.0C	852	161	17:52:36	-34:16:46	209482	0:12	6:59	89	8.06	7.71	127	28	101	650 L	32E	9.40
34	3.0L	765	145	17:52:59	-32:28: 6	209489	0: 7	1:37	0	6.62	.00	439	13	405	357 L	810	6.82
35	10.0C	772	131	17:52:59	-32:28: 6	209489	-0:14	-1: 5	0	6.62	.00	94	31	49	962 L	135	7.83
36	30.0C	776	126	17:52:59	-32:28: 6	209489	-0: 0	0:31	0	6.62	.00	156	84	103	2900 L	155	7.68
37	3.0L	857	185	17:53: 3	-34:29:28	209493	-0:15	1:10	AD	8.66	8.44	402	10	374	233?	510	7.33
38	10.0C	656	86	17:53:10	-29:51:32	185962	0:20	-3:46	A2	8.40	.00	93	18	55	508	87	8.31
39	30.0C	661	79	17:53:10	-29:51:32	185962	0:24	-3: 8	A2	8.40	.00	161	27	118	885	45	9.03
40	3.0L	616	78	17:53:13	-29: 0:55	185963	0: 7	-2:59	A2	9.10	.00	458	4	435	89?	300	7.91
41	3.0L	616	78	17:53:26	-29: 2:37	185970	-0: 5	-1:18	A3	8.90	.00	458	4	435	89?	300	7.91
42	10.0C	727	117	17:53:28	-31:30:56	209502	-0: 8	-0:18	89	8.72	8.41	118	49	53	20500H	265	7.09
43	30.0C	730	113	17:53:28	-31:30:56	209502	0:19	1:25	89	8.72	8.41	236	183	113	9951 H	1030	5.61
44	10.0C	656	86	17:53:30	-29:54:57	185974	0: 3	-1: 5	89	8.50	.00	93	18	55	508	87	8.31
45	30.0C	661	79	17:53:30	-29:54:57	185974	0: 4	0:18	89	8.50	.00	161	27	118	885 L	45	9.03
46	3.0L	572	56	17:53:32	-28: 3:33	185975	-0:19	1:31	A3	5.76	.00	466	5	443	1137L	400	7.59
47	1.0L	775	151	17:53:33	-32:40:58	209503	0:11	-0:22	89	6.60	.00	116	0	106	0	259	8.07
48	3.0L	775	153	17:53:33	-32:40:58	209503	-0: 8	-1:42	89	6.60	.00	429	38	395	1300	1021	6.57
49	3.0C	770	144	17:53:33	-32:40:58	209503	-0:16	0:22	89	6.60	.00	49	8	25	175 L	210	7.35
50	10.0C	779	141	17:53:33	-32:40:58	209503	-0:16	-0:42	89	6.60	.00	139	49	51	2219	310	6.92

## SAGITTARIUS WEST, R.A. 18:34 DEC. -30:24 (6 FRAMES)

OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAT. NO.	A. R.A.	A. DEC.	SPEC. TYPE	V. MAG.	P. MAG.	NO. OF POINTS	BG	DENSITY VOLUME	CORR. V/E	UV MAG.
51	30.0C	784	132	17:53:33	-32:40:58	209503	-0:20	1:15	89	6.60	.00	111	111	5373 L	400	6.64
52	3.0C	678	109	17:53:37	-30:41:27	209506/	0:21	2: 6	88	9.50	9.33	49	25	173	210	7.35
53	10.0C	686	106	17:53:37	-30:41:27	209506/	0:22	2: 9	88	9.50	9.33	126	61	2603 H	409	6.62
54	30.0C	692	95	17:53:37	-30:41:27	209506/	0: 9	2:36	88	9.50	9.33	212	158	5481 H	445	6.53
55	3.0C	667	107	17:53:39	-30:16:50	209507	0: 5	-0: 1	88	8.50	8.47	443	13	365?	815	6.82
56	10.0C	672	95	17:53:39	-30:16:50	209507	-0: 1	-1:30	88	8.50	8.47	123	35	1442	190	7.46
57	30.0C	677	86	17:53:39	-30:16:50	209507	-0: 5	0:23	88	8.50	8.47	207	87	4053	285	7.01
58	10.0C	810	157	17:53:43	-33:24: 9	209508	-0:18	0:24	88	8.12	7.84	76	10	252 L	117	7.98
59	30.0C	816	148	17:53:43	-33:24: 9	209508	-0:30	0:56	88	8.12	7.84	126	27	613 L	29	9.51
60	3.0C	529	44	17:53:49	-27: 7:48	185976	-0:15	0:43	89	8.40	.00	465	42	1186 H	2100	5.78
61	10.0C	534	32	17:53:49	-27: 7:48	185976	-0:14	-0:13	89	8.40	.00	124	69	2655	360	6.76
62	30.0C	539	24	17:53:49	-27: 7:48	185976	-0:18	1:34	89	8.40	.00	215	110	5700	470E	6.47
63	10.0C	723	124	17:53:56	-31:29:58	209514/	0: 7	1:00	88	9.44	9.40	107	37	16850H	203	7.38
64	30.0C	730	113	17:53:56	-31:29:58	209514/	-0:10	0:27	88	9.44	9.40	236	183	9951 H	1030	5.61
65	3.0C	678	109	17:54: 1	-30:38:55	209515/	-0: 3	0:26	88	9.10	8.68	49	8	173	210	7.35
66	10.0C	686	106	17:54: 1	-30:38:55	209515/	-0: 2	-0:23	88	9.10	8.68	126	61	2603 H	409	6.62
67	30.0C	692	96	17:54: 1	-30:38:55	209515/	-0:15	0: 4	88	9.10	8.68	212	158	5481 H	445	6.53
68	10.0C	723	124	17:54:11	-31:30:17	209518/	-0: 8	0:41	85	9.34	9.17	107	37	16850	203	7.38
69	30.0C	730	113	17:54:11	-31:30:17	209518/	-0:25	0:46	85	9.34	9.17	236	183	9951 H	1030	5.61
70	3.0C	634	94	17:54:12	-29:34: 8	185985	-0:17	1: 5	83	9.20	.00	452	7	158 L		
71	3.0C	633	99	17:54:12	-29:34: 8	185985/	0:11	-0:13	83	9.20	.00	453	5	114 L	872*	6.74
72	10.0C	636	90	17:54:12	-29:34: 8	185985/	0:18	-1:33	83	9.20	.00	100	25	829 L	120	7.96
73	30.0C	641	81	17:54:12	-29:34: 8	185985/	0:14	0:18	83	9.20	.00	181	50	1704 L	98	8.18
74	1.0L	744	145	17:54:13	-32: 2:40	209520	-0: 7	-0:47	85	8.27	7.82	136	16	389	690	7.00
75	3.0C	741	146	17:54:13	-32: 2:40	209520	-0: 4	1:30	85	8.27	7.82	457	38	1471	2200	5.73
76	3.0C	739	138	17:54:13	-32: 2:40	209520	-0:14	-1: 8	85	8.27	7.82	99	40	1698 H	754	5.95
77	10.0C	747	135	17:54:13	-32: 2:40	209520	-0:12	-1: 3	85	8.27	7.82	310	91	8611 H	1187	5.46
78	30.0C	753	125	17:54:13	-32: 2:40	209520/	-0:24	0:13	85	8.27	7.82	339	208	20302 H	2100	4.83
79	3.0C	694	128	17:54:17	-31: 0:36	209521	0: 9	1:46	0	8.24	8.17	445	8	200?	550	7.25
80	3.0C	692	119	17:54:17	-31: 0:36	209521	0: 2	0:15	0	8.24	8.17	53	9	207 L	225	7.27
81	10.0C	700	116	17:54:17	-31: 0:36	209521	0: 1	-0:50	0	8.24	8.17	137	41	1822 L	240	7.20
82	30.0C	706	107	17:54:17	-31: 0:36	209521	-0:11	0:24	0	8.24	8.17	209	107	5196 L	360	6.76
83	3.0L	773	165	17:54:27	-32:54:41	NO*	-0: 2	7:16				426	9	217?	540	7.27
84	10.0C	785	160	17:54:27	-32:54:41	NO*	0: 9	-5: 6				91	23	661	105	8.10
85	30.0C	791	150	17:54:27	-32:54:41	NO*	-0: 6	-2: 9				155	74	2762	140	7.79
86	30.0C	776	145	17:54:32	-32:38:50							143	8	265?	19	9.97
87	30.0C	856	183	17:54:33	-34:25:57	NO						122	12	241?	18	10.03
88	3.0L	633	99	17:54:34	-29:34: 4	185994/	-0:10	-0:17	88	8.70	.00	453	5	114 L	375	7.66
89	10.0C	636	90	17:54:34	-29:34: 4	185994/	-0: 4	-1:37	88	8.70	.00	100	25	829	120	7.96
90	30.0C	641	81	17:54:34	-29:34: 4	185994/	-0: 8	0:14	88	8.70	.00	181	50	1704 L	100	8.16
91	10.0C	830	177	17:54:40	-33:56:42	209527?	-0:25	0:48	88	8.30	7.93	72	8	179 L	57	8.77
92	30.0C	835	169	17:54:40	-33:56:42	209527?	-0:29	1:11	88	8.30	7.93	132	37	999 L	45	9.03
93	3.0L	512	55	17:54:41	-26:50: 4	185998?	0:25	-2:46	85	9.00	.00	461	18	4997H	1070	6.52
94	3.0L	644	107	17:54:44	-29:47:16	186002	-0:10	-4:18	83	9.30	.00	451	47	1616H	2500	5.59
95	3.0L	650	112	17:54:47	-30: 3:39	209529	-0: 1	2:44	88	7.65	7.20	470	137	5145 H	7800	4.35
96	3.0C	648	105	17:54:47	-30: 3:39	209529	-0: 5	-0:27	88	7.65	7.20	71	22	693	435	6.55
97	10.0C	656	103	17:54:47	-30: 3:39	209529	0: 7	-1:22	88	7.65	7.20	190	70	4370	607	6.19
98	30.0C	662	93	17:54:47	-30: 3:39	209529	-0:10	0:19	88	7.65	7.20	275	151	10935	1200	5.45
99	10.0C	612	84	17:54:52	-29: 4: 6	186005	0: 1	-1: 5	88	9.00	.00	122	43	1698 H	220	7.30
100	30.0C	617	75	17:54:52	-29: 4: 6	186005	-0: 2	1: 5	88	9.00	.00	204	87	2520	165*	7.61



PAGE, CARRUTHERS, AND HECKATHORN

SAGITTARIUS WEST, R.A. 18:34 DEC. -30:24 (6 FRAMES)

OBJECT NO.	EXP. FILTER	X	Y	R.A.	DEC.	S.A.O. NO.	Δ R.A.	Δ DEC.	SPEC. TYPE	V. MAG.	P. MAG.	PEAK DEN.	NO. OF POINTS	B.G.	DENSITY VOLUME	CORR. V/E	UV MAG.
101	30.0C	614	83	17:54:52	-29:41:6	1860057	0:38	-0:20	B8	9.00	.00	155	5	122	1462L		5.40
102	30.0C	547	50	17:54:53	-27:28:23	186007	0:21	-0:27	A0	9.30	.00	258	182	115	11310 H	1250	5.66
103	3.0L	567	78	17:54:59	-28:9:27	186010/	0:3	1:12	B9	9.00	.00	463	45	425	1393 H	2350	6.98
104	3.0C	564	69	17:54:59	-28:9:27	186010/	0:2	-0:53	B9	9.00	.00	63	16	28	429 H	295	6.43
105	10.0C	572	67	17:54:59	-28:9:27	186010/	0:2	-0:50	B9	9.00	.00	187	67	53	40400H	486	6.03
106	30.0C	577	59	17:54:59	-28:9:27	186010/	0:3	0:28	B9	9.00	.00	269	145	120	7440 H	700	5.66
107	3.0L	567	78	17:55:0	-28:8:15	186011/	0:2	-0:0	B5	8.80	.00	463	45	425	1393 H	2350	6.98
108	3.0C	564	69	17:55:0	-28:8:15	186011/	0:1	-2:5	B5	8.80	.00	63	16	28	429 L	295	6.43
109	10.0C	572	67	17:55:0	-28:8:15	186011/	0:1	-2:3	B5	8.80	.00	187	67	53	40400H	486	6.03
110	30.0C	577	59	17:55:0	-28:8:15	186011/	0:2	-0:43	B5	8.80	.00	269	145	120	7440	700	6.31
111	3.0L	613	103	17:55:13	-29:15:33	186016	0:10	1:36	A0	9.00	.00	448	24	421	630	1300	6.31
112	10.0C	619	91	17:55:13	-29:15:33	186016	0:1	-1:4	A0	9.00	.00	77	4	54	88 L	42	9.10
113	30.0C	622	87	17:55:13	-29:15:33	186016	0:1	-0:1	A0	9.00	.00	143	10	117	229 L	20	9.91
114	3.0L	690	139	17:55:27	-29:58:1	186016	0:6	-2:55				437	22	408	630	1200	6.40
115	10.0C	691	127	17:55:27	-30:58:1	NO	0:3	0:51				93	18	51	542	92	8.25
116	30.0C	697	117	17:55:27	-30:58:1	NO	-0:9	2:5				150	40	117	884	45	9.03
117	3.0L	539	66	17:55:28	-27:31:1	186023?	-0:28	0:42	B8	6.50	.00	459	60	430	1740	2900	5.43
118	3.0C	534	62	17:55:28	-27:31:1	186023	-0:7	-0:30	B8	8.50	.00	60	20	27	508	335	6.84
119	10.0C	542	59	17:55:28	-27:31:1	186023	-0:7	-0:27	B8	8.50	.00	167	73	52	37930H	521	6.36
120	30.0C	547	50	17:55:28	-27:31:1	186023/	-0:14	0:11	B8	8.50	.00	258	182	115	11310 H	1250	5.40
121	1.0L	593	93	17:55:29	-28:45:19	186025	0:1	-0:36	B5*	5.95	.00	318	95	114	7110 H	11647	3.92
122	3.0L	592	97	17:55:29	-28:45:19	186025	0:10	-1:35	B5*	5.95	.00	486	281	436	8895	17500	3.47
123	.5C	596	87	17:55:29	-28:45:19	186025	0:6	-0:59	B5*	5.95	.00	157	47	37	2550 H	6660	3.58
124	3.0C	588	87	17:55:29	-28:45:19	186025	-0:0	-1:30	B5*	5.95	.00	403	99	31	11841	6400	3.62
125	10.0C	596	85	17:55:29	-28:45:19	186025	0:6	-1:35	B5*	5.95	.00	429	258	57	31229	6900	3.52
126	30.0C	602	75	17:55:29	-28:45:19	186025	-0:6	-1:46	B5*	5.95	.00	412	498	120	62700	7000	3.52
127	3.0L	641	118	17:55:37	-29:54:39	186033/	-0:6	1:5	A2	8.50	.00	444	1567	357	94882?	140000	1.20
128	3.0L	463	43	17:55:48	-25:48:14	186033/	-0:8	0:42	A2	8.50	.00	456	53	403	2288 H	3500	5.23
129	3.0C	456	35	17:55:48	-25:48:14	186033/	0:30	0:42	A2	8.50	.00	54	14	28	320	265	7.09
130	10.0C	465	31	17:55:48	-25:48:14	186033/	-0:8	2:34	A2	8.50	.00	145	47	53	2528 H	434	6.55
131	30.0C	468	25	17:55:48	-25:48:14	186033/	0:5	4:23	A2	8.50	.00	256	109	118	6979 H	620E	6.17
132	1.0L	915	242	17:55:53	-36:0:15	209555?	-0:27	-2:11	A0	8.60	8:26	124	8	97	237 H	982E	6.61
133	3.0L	913	244	17:55:53	-36:0:15	209555/	-0:19	-1:33	A0	8.60	8:26	397	40	336	1580 H	1800E	5.95
134	3.0C	908	237	17:55:53	-36:0:15	209555/	-0:18	-1:17	A0	8.60	8:26	64	15	24	453	310	6.92
135	10.0C	914	235	17:55:53	-36:0:15	209555/	-0:3	0:43	A0	8.60	8:26	93	40	44	1144	160E	7.64
136	1.0L	915	242	17:56:6	-36:1:5	209560/	-0:39	-0:1	0	7:26	.00	124	8	100	171 H	982E	6.61
137	3.0L	913	244	17:56:6	-36:1:5	209560/	-0:19	-1:45	0	7:26	.00	397	40	336	1580 H	1800E	5.95
138	3.0C	908	237	17:56:6	-36:1:5	209560/	-0:27	0:0	0	7:26	.00	64	15	24	453 H	310	6.92
139	10.0C	914	235	17:56:6	-36:1:5	209560/	-0:15	1:33	0	7:26	.00	93	40	44	1144	160E	7.64
140	10.0C	557	76	17:56:8	-27:57:26	186045	0:4	-0:35	A0	8.70	.00	75	5	50	1217L	50	8.91
141	30.0C	562	69	17:56:8	-27:57:26	186045	0:8	-0:58	A0	8.70	.00	140	32	115	795 L	40	9.16
142	3.0L	668	129	17:56:9	-30:38:31	209561	-0:0	2:51	B9	8.47	8:10	432	10	404	2477	610	7.13
143	10.0C	675	129	17:56:9	-30:38:31	209561	0:5	-2:22	B9	8.47	8:10	90	24	50	687	110	8.05
144	30.0C	681	119	17:56:9	-30:38:31	209561	-0:7	-1:9	B9	8.47	8:10	166	75	113	2451	135	7.83
145	3.0L	463	43	17:56:10	-25:48:58	186047?	-0:29	1:49	B9	8.20	.00	456	53	403	2288 H	3850*	5.12
146	3.0L	460	49	17:56:10	-25:48:58	186047/	0:6	1:18	B9	8.20	.00	429	7	407	1497L		7.09
147	3.0C	456	35	17:56:10	-25:48:58	186047/	0:9	1:26	B9	8.20	.00	54	14	28	320	265	7.09
148	10.0C	465	31	17:56:10	-25:48:58	186047/	-0:29	3:38	B9	8.20	.00	145	47	53	2528 H	434	6.55
149	30.0C	468	25	17:56:10	-25:48:58	186047/	-0:16	5:7	B9	8.20	.00	256	109	118	6979 H	620E	6.17
150	10.0C	623	106	17:56:11	-29:28:51	186048	0:6	-0:18	B9	8.90	.00	78	6	51	150 L	52	8.87

## SAGITTARIUS WEST, R.A. 18:34 DEC. -30:24 (6 FRAMES)

OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAO NO.	Δ R.A.	Δ DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	BG	DENSITY VOLUME	CORR. V/E	UV MAG.
151	30.0C	628	99	17:56:11	-29:28:51	186048	0:10	-0:35	89	8.90	.00	147	31	113	823 L	40	3.16
152	3.0L	486	54	17:56:16	-26:24:3	186050?	-0:28	2:31	88	9.00	.00	451	10	426	250 H	670	7.03
153	3.0L	653	134	17:56:17	-30:16:58	NO	0:8	-0:1				438	15	409	432	910	6.70
154	10.0C	656	120	17:56:17	-30:16:58	NO	-0:7	-0:27				78	7	54	151	52	8.87
155	30.0C	663	114	17:56:17	-30:16:58	NO	-0:1	0:27				147	24	122	511	29	9.51
156	10.0C	807	188	17:56:22	-33:39:0	209563	-0:18	0:2	89	9.29	8.99	88	23	56	499	89	8.28
157	30.0C	811	183	17:56:22	-33:39:0	209563	-0:4	1:39	89	9.29	8.99	148	81	96	2837 H	140	7.79
158	3.0L	816	206	17:56:37	-33:53:18	209568?	-0:27	-3:19	82	8.31	8.26	395	4	371	82 L	235	8.17
159	10.0C	817	195	17:56:37	-33:53:18	209568	-0:18	-0:34	82	8.31	8.26	80	17	47	450 L	84	8.35
160	30.0C	822	188	17:56:38	-33:53:18	209568	-0:17	0:54	82	8.31	8.26	144	48	109	1097 L	51	8.89
161	1.0L	792	195	17:56:38	-33:24:22	209569	-0:19	0:49	83	7.20	.00	163	42	100	1545	2673	5.52
162	3.0L	792	197	17:56:38	-33:24:22	209569	-0:16	-0:49	83	7.20	.00	447	116	374	5416	8400	4.27
163	3.5C	796	189	17:56:38	-33:24:22	209569	-0:14	0:4	83	7.20	.00	58	11	30	264 L	1460	5.23
164	3.0C	787	189	17:56:38	-33:24:22	209569	-0:15	-0:32	83	7.20	.00	163	58	24	3520	1540	5.17
165	10.0C	795	186	17:56:38	-33:24:22	209569	-0:12	-0:22	83	7.20	.00	393	120	47	14026	2550	4.62
166	30.0C	800	179	17:56:38	-33:24:22	209569	-0:14	-0:4	83	7.20	.00	381	252	95	30501	3000	4.45
167	3.0L	892	241	17:56:49	-35:38:50	209574?	-0:38	0:44	85	9.10	8.64	390	21	342	712	1000	6.59
168	3.0C	889	235	17:56:49	-35:38:50	209574?	-0:34	0:37	85	9.10	8.64	54	20	22	510 L	315	6.90
169	10.0C	896	232	17:56:49	-35:38:50	209574?	-0:30	-0:24	85	9.10	8.64	142	80	43	3917	475	6.46
170	30.0C	902	224	17:56:49	-35:38:50	209574?	-0:39	-0:12	85	9.10	8.64	202	138	97	8940	740E	5.97
171	10.0C	541	64	17:56:53	-27:44:6	186066	0:20	0:2	89	9.30	.00	88	20	50	576	97	8.19
172	30.0C	547	74	17:56:53	-27:44:6	186066	0:12	0:46	89	9.30	.00	169	41	115	1734	92	8.25
173	10.0C	428	26	17:56:54	-25:5:5	186067	0:10	1:45	88	8.10	.00	148	8	56	191 L	57	8.77
174	1.0L	631	132	17:56:57	-29:49:59	186068?	0:16	0:2	83	8.50	.00	148	34	105	1028	2097	5.79
175	3.0L	629	132	17:56:57	-29:49:59	186068?	0:12	1:43	83	8.50	.00	464	277	396	5150 H	9250	4.17
176	3.0C	625	126	17:56:57	-29:49:59	186068?	0:18	0:19	83	8.50	.00	129	53	25	2696?	1120	5.52
177	10.0C	634	122	17:56:57	-29:49:59	186068?	0:11	-0:15	83	8.50	.00	362	122	48	12331 H	1813	4.99
178	30.0C	639	114	17:56:57	-29:49:59	186068?	0:10	-0:2	83	8.50	.00	375	234	118	25493	3000	4.45
179	3.0L	580	106	17:57:9	-28:37:9	186076?	-0:21	-1:23	80	8.90	.00	443	12	420	276 L	720	6.95
180	1.0L	631	132	17:57:15	-29:49:22	186079?	-0:2	-0:34	82	8.00	.00	148	34	105	1028	2097	5.79
181	3.0L	629	132	17:57:15	-29:49:22	186079?	-0:6	1:6	82	8.00	.00	464	277	396	5150 H	9250	4.17
182	3.0C	625	126	17:57:15	-29:49:22	186079?	-0:1	-0:17	82	8.00	.00	129	53	25	2696?	1120	5.52
183	10.0C	634	122	17:57:15	-29:49:22	186079?	-0:7	-0:51	82	8.00	.00	362	122	48	12331	1813	4.99
184	30.0C	639	114	17:57:15	-29:49:22	186079?	-0:8	-0:39	82	8.00	.00	375	234	118	25493	3000	4.45
185	3.0L	582	118	17:57:32	-28:42:36	186085	0:9	-4:45	40*	8.90	.00	436	6	411	150	435	7.50
186	3.0C	575	108	17:57:32	-28:42:36	186085	-0:1	-0:42	40*	8.90	.00	59	11	26	297	255	7.13
187	10.0C	583	105	17:57:32	-28:42:36	186085	0:4	-1:5	40*	8.90	.00	163	81	49	37630H	508	6.38
188	30.0C	588	98	17:57:32	-28:42:36	186085	0:3	0:54	40*	8.90	.00	148	170	120	9449 H	990	5.65
189	1.0L	404	34	17:57:37	-24:40:33	186086	0:5	4:20	83	8.60	.00	222	7	100	1417L	435	7.50
190	3.0C	399	29	17:57:37	-24:40:33	186086	0:14	2:23	83	8.60	.00	47	10	29	150 L	205E	7.37
191	1.0L	919	271	17:57:58	-36:23:17	209597?	-0:6	1:13	89*	8.90	8.46	148	59	93	2048 H	3386	5.26
192	3.0L	918	272	17:57:58	-36:23:17	209597?	-0:6	1:14	89*	8.90	8.46	422	119	327	6435 H	9479	4.14
193	5C	922	265	17:57:58	-36:23:17	209597?	0:1	0:20	89*	8.90	8.46	156	99	26	424 H	1800	5.00
194	3.0C	914	265	17:57:58	-36:23:17	209597?	-0:8	0:20	89*	8.90	8.46	156	99	26	5670 H	2900	4.48
195	10.0C	922	262	17:57:58	-36:23:17	209597?	-0:5	-0:31	89*	8.90	8.46	400	200	46	24419 H	4900E	3.91
196	30.0C	925	258	17:57:58	-36:23:17	209597?	0:17	1:48	89*	8.90	8.46	382	201	95	22522 H	2200	4.78
197	10.0C	755	190	17:58:2	-32:44:6	209599?	0:12	1:3	40	8.90	8.69	76	14	94	351	75	8.47
198	30.0C	761	181	17:58:2	-32:44:6	209599?	0:5	1:49	40	8.90	8.69	140	73	94	2292	120	7.95
199	3.0L	587	127	17:58:5	-28:59:37	186102	0:3	1:35	40	9.10	.00	422	6	396	138?	380	7.65
200	10.0C	593	116	17:58:5	-28:59:37	186102	-0:0	-1:33	40	9.10	.00	84	18	46	507	84	8.28

PAGE, CARRUTHERS, AND HECKATHORN

SAGITTARIUS WEST, R.A. 18:34 DEC. -30:24 (6 FRAMES)

OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAO NO.	Δ R.A.	Δ DEC.	SPEC. V. TYPE	P MAG.	PEAK DEN.	NO. OF POINTS	BG	DENSITY VOLUME	CORR. V/E	UV MAG.	
201	30.0C	599	110	17:58: 5	-28:59:31	186102	0: 9	-2:19	A0	9.10	.00	179	33	109	1002	49	8.93
202	3.0L	880	258	17:58: 9	-35:33:43						353	10	325	250	480	7.39	
203	10.0C	534	94	17:58:11	-27:41:15	NO	0: 6	-0:24			116	45	50	1648	220	7.30	
204	30.0C	540	84	17:58:11	-27:41:15	NO	-0: 5	-0:24			201	137	115	8370	780	5.92	
205	10.0C	860	233	17:58:13	-35: 0:33	209605?	-0:23	0:54	A0	8.50	8.30	75	14	349 L	75	8.47	
206	30.0C	864	228	17:58:13	-35: 0:33	209605	-0: 9	0:44	A0	8.50	8.30	132	44	97	124	54	8.83
207	3.0L	613	140	17:58:15	-29:35:14	186109	0: 5	0:56	A0	7.50	.00	431	16	403	357	810	6.82
208	3.0C	610	132	17:58:15	-29:35:14	186109	-0: 2	-0:40	A0	7.50	.00	52	5	26	113 L	181	7.51
209	10.0C	618	129	17:58:15	-29:35:14	186109	0: 4	-1: 2	A0	7.50	.00	129	33	52	1390	181	7.51
210	30.0C	622	123	17:58:15	-29:35:14	186109	0:10	-0: 9	A0	7.50	.00	198	89	114	3971	255	7.13
211	1.0L	919	271	17:58:25	-36:22:39	209608?	-0:33	0:35	B9	6.32	.00	148	59	93	2048 H	3386	5.26
212	3.0L	918	272	17:58:25	-36:22:39	209608?	-0:33	0:35	B9	6.32	.00	422	119	327	6435 H	9479	4.14
213	10.0C	922	262	17:58:25	-36:22:39	209608?	-0:33	-0:55	B9	6.32	.00	400	200	46	24419 H	4900E	3.91
214	30.0C	925	258	17:58:25	-36:22:39	209608?	-0:10	1:10	B9	6.32	.00	382	201	95	22522	2200	4.78
215	10.0C	755	190	17:58:26	-32:42:54	209609?	-0:11	-0: 9	O	8.76	8.77	76	14	46	351 L	75	8.47
216	30.0C	761	181	17:58:26	-32:42:54	209609?	-0:18	0:37	O	8.76	8.77	140	73	94	2292 L	120	7.96
217	3.0L	543	112	17:58:33	-27:57:23	186120	-0: 7	-2:39	B9	9.30	.00	441	19	409?	510 H	1040	6.55
218	10.0C	545	102	17:58:33	-27:57:23	186120	0: 3	-1:40	B9	9.30	.00	88	15	52	431	80	8.40
219	30.0C	557	88	17:58:33	-27:57:23	186120?	-0:40	-4:26	B9	9.30	.00	149	5	121	110?L		
220	30.0C	550	94	17:58:33	-27:57:23	186120	-0: 1	0: 7	B9	9.30	.00	162	46	116	1516	87*	8.31
221	3.0L	598	139	17:58:39	-29:15:25	186128	0: 6	-2:17	A0	9.00	.00	414	5	389?	111	310	7.87
222	10.0C	601	129	17:58:39	-29:15:25	186128	0: 9	-1:52	A0	9.00	.00	84	19	45	5560	125	7.91
223	30.0C	605	123	17:58:39	-29:15:25	186128	0:23	-0:20	A0	9.00	.00	173	46	106	1871	97	8.19
224	1.0L	522	106	17:58:41	-27:33:44	NO*	0: 6	3: 3			151	30	102	963	1780	5.96	
225	3.0L	521	107	17:58:41	-27:33:44	NO*	0: 2	1:57			456	195	395	7320	8750	4.23	
226	3.0C	517	99	17:58:41	-27:33:44	NO*	0: 0	2:37			146	41	26	2333	980	5.67	
227	10.0C	525	96	17:58:41	-27:33:44	NO*	0: 2	1: 6			356	90	50	9640	1335	5.33	
228	30.0C	529	89	17:58:41	-27:33:44	NO*	0:11	2: 5			371	235	115	21900	2580	4.61	
229	3.0L	885	261	17:58:43	-35:40:11	209614?	-0:31	-0:29	B8	7.62	7.33	388	56	325	2370	2750	5.49
230	3.0C	880	254	17:58:43	-35:40:11	209614?	-0:25	-0:44	B8	7.62	7.33	367	34	22	1086	580	6.24
231	10.0C	888	250	17:58:43	-35:40:11	209614?	-0:32	0:31	B8	7.62	7.33	192	103	42	64770H	808	5.88
232	30.0C	892	246	17:58:43	-35:40:11	209614	-0:15	0:33	B8	7.62	7.33	254	381	93	27400 H	2750	4.54
233	3.0L	719	192	17:58:47	-32: 3:28	209617	-0: 1	0:15	B8	8.61	8.38	420	22	383	598	1050	6.54
234	10.0C	724	181	17:58:47	-32: 3:28	209617	-0: 1	0:15	B8	8.61	8.38	92	25	43	791	125	7.91
235	30.0C	730	172	17:58:47	-32: 3:28	209617	-0: 7	-1: 8	B8	8.61	8.38	149	72	96	2617	127	7.90
236	1.0L	604	141	17:58:51	-29:24:56	NO	-0:14	-0:24	B8	8.61	8.38	163	17	102	613?	90*	6.71
237	3.0C	972	263	17:58:56	-35:34:21	209623?	0:24	-2:31	A	9.97	9.60	58	17	22	462 H	.15	6.90
238	3.0L	481	89	17:58:57	-26:28:59	186136?	-0:20	-4:10	A0	9.00	.00	419	25	389	599?H	1100	6.49
239	3.0C	815	236	17:59: 4	-34:11:26	209626	-0:16	-0:40	B8	8.93	8.60	374	7	344	210	435	7.50
240	10.0C	819	225	17:59: 4	-34:11:26	209626	-0:20	-0:47	B8	8.93	8.60	89	19	52	535	91	8.26
241	30.0C	824	217	17:59: 4	-34:11:26	209626	-0:19	0:40	B8	8.93	8.60	146	65	104	1733	86	8.32
242	3.0L	469	88	17:59: 7	-26:17:27	NO	-0: 9	-1:24			427	26	386	903	1450	6.19	
243	10.0C	468	80	17:59: 7	-26:17:27	NO	0: 8	1:23			98	28	48	885	133	7.84	
244	1.0L	801	231	17:59:24	-33:53:25	209631	-0:18	0: 1	B5	7.55	6.98	176	54	95	2271 H	3663	5.18
245	3.0L	800	233	17:59:24	-33:53:25	209631	-0:13	-0:26	B5	7.55	6.98	450	148	357	7563 H	12500	3.18
246	3.0C	795	225	17:59:24	-33:53:25	209631	-0:17	0:19	B5	7.55	6.98	187	59	24	3908 H	1700	5.07
247	10.0C	803	222	17:59:24	-33:53:25	209631	-0:16	-0:36	B5	7.55	6.98	394	123	44	14514 H	2650	4.58
248	30.0C	808	217	17:59:24	-33:53:25	209631	-0: 5	-0: 8	B5	7.55	6.98	380	259	92	30496	3000	4.45
249	30.0C	472	76	17:59:25	-26: 6:50	186147?	0:16	-8:38	A0	9.00	.00	249	175	110	10335 H	1070	5.57
250	3.0L	753	216	17:59:28	-32:53: 7						400	49	361	1900	2500	5.59	

NRL REPORT 8487

SAGITTARIUS WEST. R.A. 18:34 DEC. -30:24 (6 FRAMES)

OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	S.A.O. NO.	Δ	R.A.	Δ	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	B.G.	DENSITY VOLUME	CORR. V/E	UV MAG.
251	3.0L	876	271	17:59:30	-35:31:51	209634/	-0: 4	-4:36	89*	9.06	8.84	371	19	331	569 H	840	6.78	
252	3.0C	872	263	17:59:30	-35:31:51	209634/	-0:11	-5: 1	89*	9.06	8.84	58	17	22	462 H	315	6.90	
253	10.0C	880	260	17:59:30	-35:31:51	209634/	-0: 7	-4:44	89*	9.06	8.84	157	77	42	3936 H	540	6.32	
254	30.0C	885	353	17:59:30	-35:31:51	209634/	-0:16	-0:28	89*	9.06	8.84	211	105	93	7200 H	530	6.34	
255	30.0C	679	158	17:59:32	-30:58:15	209635	-0:16	-0:28	89	8.63	8.32	131	15	102	3727L	22	9.81	
256	1.0L	377	46	17:59:34	-24:15:24	186152	-0: 2	3:12	83	6.87	.00	249	145	103	9400 H	2550E	3.06	
257	5.0C	380	40	17:59:34	-24:15:24	186152	-0: 9	3:16	83	6.87	.00	104	58	35	1617	6450	3.61	
258	3.0C	372	39	17:59:34	-24:15:24	186152	-0: 1	3:12	83	6.87	.00	362	144	35	14300	8550E	3.30	
259	10.0C	380	37	17:59:34	-24:15:24	186152	-0: 0	1:38	83	6.87	.00	438	173	60	43000	6300E	3.64	
260	1.0L	599	148	17:59:36	-29:22: 4	186156	-0: 2	0: 4	88	7.86	.00	153	101	1066 H	1420	6.21		
261	3.0L	598	150	17:59:36	-29:22: 4	186156	-0: 2	-0:21	88	7.86	.00	459	106	399?	3700 H	5500	4.73	
262	3.0C	594	142	17:59:36	-29:22: 4	186156	-0: 2	-1:17	88	7.86	.00	445	109	332	2136 H	932	5.72	
263	10.0C	602	139	17:59:36	-29:22: 4	186156	-0: 3	-0:18	88	7.86	.00	342	104	44	97060H	1349	5.32	
264	30.0C	607	131	17:59:36	-29:22: 4	186156	-0: 4	-0:29	88	7.86	.00	356	272	104	27293 H	2940	4.47	
265	3.0L	656	173	17:59:43	-30:43:38	209636	-0:14	1:55	A0	9.61	9.33	417	21	381	5577H	1000	6.59	
266	3.0L	876	271	17:59:51	-35:36:54	209639?	-0:25	0:27	89	8.30	8.02	371	19	331	569	840	6.78	
267	10.0C	880	260	17:59:51	-35:36:54	209639?	-0:28	0:19	89	8.30	8.02	157	77	42	3936 H	540	6.32	
268	30.0C	858	251	17:59:52	-34:58: 5	209640?	0:25	-7:55	A2	9.18	9.23	134	69	90	2218 H	115	8.00	
269	3.0L	620	165	17:59:55	-29:58:47	NO*N6522?	0:12	2:25	GL0B?	10.5	10.5	409	5	387	111	205	8.32	
270	10.0C	629	151	17:59:55	-29:58:47	NO*N6522?	-0:14	-2:34	GL0B?	10.5	10.5	75	10	46	251	65	8.63	
271	30.0C	632	146	17:59:55	-29:58:47	NO*N6522?	0: 2	0: 9	GL0B?	10.5	10.5	135	38	102	1007	53	8.85	
272	3.0L	543	133	17:59:56	-28: 8: 0	NO	0:13	-2:40	2:40	145	430	19	401	115	487	970	6.63	
273	30.0C	550	109	17:59:56	-28: 8: 0	NO	-0:13	2:40	145	430	19	401	115	487	970	6.63		
274	3.0L	603	154	17:59:57	-29:31:51	186166/	-0:10	1: 9	85	8.90	.00	436	12	409	330	770	6.88	
275	3.0C	599	149	17:59:57	-29:31:51	186166/	0: 2	-0: 9	85	8.90	.00	54	7	27	163 L	200	7.40	
276	10.0C	607	146	17:59:57	-29:31:51	186166/	0: 5	-1:38	85	8.90	.00	141	48	44	23340	297	6.97	
277	30.0C	611	140	17:59:57	-29:31:51	186166/	0:14	0:24	85	8.90	.00	206	66	99	3694	205	7.37	
278	3.0L	504	116	17:59:59	-27:19:47	186168	0: 1	3:54	A2	9.00	.00	401	7	350	3207H	550	7.25	
279	3.0L	528	129	18: 0: 0	-27:53	N6520/	0:14	2: 4	NEB+STAR	99	99	436	60	388	1590?	2350	5.66	
280	10.0C	534	117	18: 0: 0	-27:53	N6520/	0: 6	-0:36	NEB+STAR	180	180	436	52	133	1367	76	7.14	
281	30.0C	538	111	18: 0: 0	-27:53	N6520/	-0:15	-2:41	NEB+STAR	180	180	436	52	133	1367	76	8.46	
282	3.0L	603	154	18: 0: 2	-29:27:59	186170/	-0:17	-2:41	A0	9.10	.00	436	12	409	330	770	6.88	
283	3.0C	599	149	18: 0: 2	-29:27:59	186170/	-0: 4	-4: 2	A0	9.10	.00	54	7	27	163	200	7.40	
284	10.0C	607	146	18: 0: 2	-29:27:59	186170/	-0: 3	-4:43	A0	9.10	.00	141	48	44	23340	297	6.97	
285	30.0C	611	140	18: 0: 2	-29:27:59	186170/	0: 9	-3:29	A0	9.10	.00	206	66	99	3694 H	205	7.37	
286	3.0L	528	129	18: 0: 3	-27:51:54	186171/	0:12	0:59	A0	9.00	.00	436	60	388	15902H	2350	5.66	
287	10.0C	534	117	18: 0: 3	-27:51:54	186171/	0: 3	-1:42	A0	9.00	.00	99	29	44	11300	254	7.14	
288	30.0C	538	111	18: 0: 3	-27:51:54	186171/	0:14	-1:19	A0	9.00	.00	180	52	133	1367	76	8.46	
289	3.0L	463	99	18: 0: 16	-26:19:17	186180	-0:18	1:33	A0	7.50	.00	431	18	395	176 L	210	7.35	
290	3.0C	458	90	18: 0: 16	-26:19:17	186180	0: 3	1:27	A0	7.50	.00	51	8	25	2080	273	7.06	
291	10.0C	466	88	18: 0: 16	-26:19:17	186180	-0:15	1:50	A0	7.50	.00	122	45	44	10335	1060	5.58	
292	30.0C	472	76	18: 0: 16	-26:19:17	186180?	-0:36	3:49	A0	7.50	.00	249	175	110	1690L	130	7.80	
293	10.0C	519	113	18: 0: 18	-27:33:10	186182	-0: 2	-1:11	88	8.80	.00	79	5	44	2730	3600	5.20	
294	3.0L	483	115	18: 0: 32	-26:52:15	186189	0: 4	2:47	85	7.90	.00	422	65	380	110 L	178	7.53	
295	3.0C	481	104	18: 0: 32	-26:52:15	186189	-0:15	1: 1	85	7.90	.00	117	37	44	1622 L	234	7.23	
296	10.0C	489	101	18: 0: 32	-26:52:15	186189	-0:15	1: 1	85	7.90	.00	207	105	105	5670 L	410	6.62	
297	30.0C	494	92	18: 0: 32	-26:52:15	186189	-0:20	1:36	85	7.90	.00	419	34	385	731 H	1280	6.32	
298	3.0L	565	147	18: 0: 36	-28:44:14	186192	-0: 5	0:18	A0	8.20	.00	85	17	44	519 L	100	8.16	
299	10.0C	569	138	18: 0: 36	-28:44:14	186192	0: 1	-0:58	A0	8.20	.00	85	17	44	519 L	100	8.16	
300	30.0C	574	131	18: 0: 36	-28:44:14	186192	0: 7	-0: 6	A0	8.20	.00	155	49	108	1532 L	75	8.47	

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OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAO NO.	A R.A.	A DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	BG	DENSITY VOLUME	CORR. V/E	UV MAG.
301	3.0L	419	82	18: 0:38	-25:18:54	186193	-0: 6	-1:19	81	8.90	.00	.421	40	378	1295?	2200*	5.73
302	3.0L	413	85	18: 0:38	-25:18:54	186193	-0:17	4:42	81	8.90	.00	.412	6	371	1957L		
303	10.0C	420	71	18: 0:38	-25:18:54	186193	-0:11	1:12	81	8.90	.00	.84	20	49	524 L	92	8.25
304	30.0C	424	66	18: 0:38	-25:18:54	186193	-0:14	1:38	81	8.90	.00	.187	49	125	2208 L	135	7.83
305	3.0L	427	87	18: 0:39	-25:30:18	NO*	-0: 2	-0:59				.433	169	366	7140	12100	3.87
306	10.0C	428	77	18: 0:39	-25:30:18	NO*	0: 9	1: 7				.87	37	46	1153	219	7.30
307	30.0C	436	66	18: 0:39	-25:30:18	NO*	-0: 6	-0:10				.247	89	130	4860	390	6.67
308	1.0L	504	122	18: 0:42	-27:18:24	186200	-0:12	0:37	83	9.00	.00	.124	8	99	182 L	739	6.92
309	3.0L	503	122	18: 0:42	-27:18:24	186200	-0:12	0:37	83	9.00	.00	.432	35	409	900	1515	6.14
310	3.0C	499	115	18: 0:42	-27:18:24	186200	-0: 6	1: 2	83	9.00	.00	.77	25	24	8240	405	6.63
311	10.0C	507	112	18: 0:42	-27:18:24	186200	-0: 9	0: 2	83	9.00	.00	.207	67	46	45080	518	6.36
312	30.0C	511	106	18: 0:42	-27:18:24	186200	-0:13	0:24	83	9.00	.00	.285	200	112	17334	1970	4.90
313	3.0L	524	130	18: 0:44	-27:43:58	186201	-0:16	-2:48	AD*	9.20	.00	.442	36	388	1200	1900	5.89
314	10.0C	525	121	18: 0:44	-27:43:58	186201	-0: 4	-0:37	AD*	9.20	.00	.105	25	44	11100	199	7.41
315	30.0C	530	113	18: 0:44	-27:43:58	186201	-0: 5	-0:28	AD*	9.20	.00	.173	59	123	2051	125	7.91
316	1.0L	375	62	18: 0:48	-24:21:48	186204	-0: 6	3:57	0	5.86	.00	.408	352	103	32700	105000	1.52
317	3.0L	373	64	18: 0:48	-24:21:48	186204	-0: 1	4:43	0	5.86	.00	.507	3270	369	231600	4205000	.79
318	.5C	378	56	18: 0:48	-24:21:48	186204	0: 8	3:30	0	5.86	.00	.250	223	33	14073	37130	1.70
319	3.0C	369	56	18: 0:48	-24:21:48	186204	0: 2	4:46	0	5.86	.00	.470	505	30	69000	43000	1.54
320	10.0C	377	55	18: 0:48	-24:21:48	186204	0: 9	2:53	0	5.86	.00	.468	996	71	148640	61000	1.16
321	30.0C	380	47	18: 0:48	-24:21:48	186204	-0:13	5:18	0	5.86	.00	.468	1160	130	390000?	490000E	1.40
322	1.0L	373	64	18: 0:52	-24:18:55	186207	-0:11	1: 4	80	7.25	.00	.408	352	103	32700	105000	1.52
323	3.0L	373	64	18: 0:52	-24:18:55	186207	-0: 6	1:50	80	7.25	.00	.507	3270	369	231600	4205000	.79
324	0.5C	378	56	18: 0:52	-24:18:55	186207	0: 4	0:37	80	7.25	.00	.250	505	30	69000	43000	1.54
325	3.0C	369	56	18: 0:52	-24:18:55	186207	-0: 2	1:53	80	7.25	.00	.470	996	71	148640	61000	1.16
326	10.0C	377	55	18: 0:52	-24:18:55	186207	0: 4	0: 0	80	7.25	.00	.468	1160	130	390000?	490000E	1.40
327	30.0C	380	47	18: 0:52	-24:18:55	186207	-0: 4	0: 0	80	7.25	.00	.468	1160	130	390000?	490000E	1.40
328	10.0C	852	260	18: 0:57	-35: 6:33	2096637	-0:28	-0:45	AD	8.15	8.00	.85	27	41	783	125	7.91
329	30.0C	858	251	18: 0:57	-35: 6:33	2096637	-0:41	0:33	AD	8.15	8.00	.134	69	90	2218	115	8.00
330	3.0L	682	207	18: 1: 0	-31:38:53	209664	-0: 3	-2:11	83	8.09	7.81	.411	42	368	1350 L	1850	5.92
331	3.0C	687	199	18: 1: 0	-31:38:53	209664	-0: 3	-2:11	83	8.09	7.81	.56	9	22	247 L	240	7.20
332	10.0C	695	196	18: 1: 0	-31:38:53	209664	0: 1	-0:47	83	8.09	7.81	.143	41	41	1938 L	260	7.11
333	30.0C	699	191	18: 1: 0	-31:38:53	209664	0: 1	-1:44	83	8.09	7.81	.184	85	90	4741 L	280	7.03
334	30.0C	822	243	18: 1: 3	-34:22:56	NO	0:14	-0: 9	83	8.09	7.81	.115	11	92	2387	19	9.97
335	10.0C	519	124	18: 1: 7	-27:39:26							.83	13	44	4490	149	7.72
336	30.0C	729	202	18: 1:12	-32:24: 8							.115	26	88	591	30	9.47
337	3.0L	506	133	18: 1:13	-27:23:28	186218	0: 3	-3:22	89	8.00	.00	.417	7	384	1772L	440	7.49
338	3.0C	500	122	18: 1:13	-27:23:28	186218	-0:11	0:59	89	8.00	.00	.61	13	25	3610	229	7.25
339	10.0C	508	119	18: 1:13	-27:23:28	186218	-0:10	-0:16	89	8.00	.00	.150	41	46	20680	282	7.02
340	10.0C	659	185	18: 1:19	-30:52:20	209669	0: 2	-1:19	89	9.60	9.34	.73	8	42	209 L	62	8.68
341	30.0C	685	175	18: 1:19	-30:52:20	209669	-0:11	-0:10	89	9.60	9.34	.123	31	92	809 L	37	9.24
342	3.0L	371	72	18: 1:21	-24:23:22	186220	0: 7	3:47	8	7.21	.00	.492	158	412	14800 H	29380	2.91
343	3.0L	371	72	18: 1:25	-24:19:36	186220	0: 4	0: 2	85	9.10	.00	.492	158	412	14800 H	29380	2.91
344	1.0L	371	77	18: 1:31	-24:20: 5	186227	0:27	-1:25	83	8.90	.00	.238	177	103	6200 H	7287	4.43
345	3.0L	371	72	18: 1:31	-24:20: 5	186227	-0: 3	0:30	83	8.90	.00	.492	158	412	14800 H	29380	2.91
346	30.0C	374	60	18: 1:31	-24:20: 5	186227	0:39	3:53	83	8.90	.00	.468	1160	130	390000?	49000	1.40
347	3.0L	539	150	18: 1:33	-28:14:14	NO						.420	18	382	531?	940	6.66
348	3.0L	441	108	18: 1:33	-26: 1:20	186229	0:12	2:20	A2	8.80	.00	.410	15	374	433?H	800	6.84
349	3.0L	405	92	18: 1:35	-25:12:10	186230	0:12	4: 0	89	9.00	.00	.411	10	381	240?	550	7.25
350	3.0C	332	50	18: 1:38	-23:27:49	186233	0: 3	-4:25	B	9.10	.00	.49	16	29	149	198	7.41

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OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAO NO.	Δ R.A.	Δ DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	BO	DENSITY VOLUME	CORR. V/E	UV MAG.
351	10.0C	863	273	18: 1:39	-35:25: 6	209675?	-0:28	-0:38	A0	8.30	8.06	71	5	45	132 L	53	8.85
352	30.0C	866	268	18: 1:39	-35:25: 6	209675	-0:12	2:10	A0	8.30	8.06	120	50	88	1210 L	34	9.33
353	30.0C	434	81	18: 1:39	-25:36:26	NO						142	10	116	224?	19	9.97
354	3.0L	551	156	18: 1:40	-28:32:26	186234	0: 3	0:59	B9	9.30	.00	426	53	387	1523 H	2200	5.73
355	10.0C	556	145	18: 1:40	-28:32:26	186234	0: 5	-1:39	B9	9.30	.00	99	23	44	823	125	7.91
356	30.0C	559	141	18: 1:40	-28:32:26	186234	0:21	0: 7	B9	9.30	.00	168	60	100	2547	125	7.91
357	1.0L	339	66	18: 1:45	-23:36: 3	186236?	0:21	-2:12	B8	8.60	.00	143	42	100	1246 H	3622	5.19
358	3.0L	338	68	18: 1:45	-23:36: 3	186236?	0:21	-2:48	B8	8.60	.00	444	20	367	1117 H	7974	4.33
359	3.0C	332	50	18: 1:45	-23:36: 3	186236?	0: 4	3:48	B8	8.60	.00	49	8	29	149 L	198	7.41
360	3.0L	625	188	18: 1:47	-30:13:51	209678	0: 0	-0:56	A0	8.54	8.21	404	8	377	192		
361	3.0L	628	191	18: 1:47	-30:13:51	209678?	0:10	-5:50	A0	8.54	8.21	411	21	377	565	1400*	6.23
362	10.0C	629	178	18: 1:47	-30:13:51	209678	0: 2	-1:40	A0	8.54	8.21	90	17	42	566	97	8.19
363	30.0C	635	167	18: 1:47	-30:13:51	209678	-0:16	-0: 4	A0	8.54	8.21	143	54	94	1817	89	8.28
364	3.0L	523	147	18: 1:52	-27:51:42	NO	0: 1	-2:34				422	19	373	808?	1240	6.36
365	10.0C	522	135	18: 1:52	-27:51:42	NO	0: 0	2:33				95	37	44	1312	179	7.52
366	1.0L	395	81	18: 1:53	-24:41: 5	186240	-0: 6	1:11	B0	8.00	.00	209	55	115	2557	4200	5.03
367	3.0L	391	80	18: 1:53	-24:41: 5	186240	0: 9	5:29	B0	8.00	.00	488	70?	369?	4200?	5600	4.71
368	5C	388	75	18: 1:53	-24:41: 5	186240	0: 3	1:19	B0	8.00	.00	86	32	32	1082	4620	3.97
369	3.0C	380	75	18: 1:53	-24:41: 5	186240	-0: 4	1:19	B0	8.00	.00	312	109	27	9027	4115	4.10
370	10.0C	387	72	18: 1:53	-24:41: 5	186240	-0: 1	1: 4	B0	8.00	.00	422	150	85	23840?	6000	3.69
371	30.0C	390	69	18: 1:53	-24:41: 5	186240?	0:23	1:27	B0	8.00	.00	408	51	270	7100 L	685	6.06
372	3.0L	499	129	18: 1:54	-27: 5:25	186241?	-0:26	1:47	A2	9.00	.00	406	16	380	3107H	650	7.06
373	10.0C	494	124	18: 1:54	-27: 5:25	186241	-0:15	3:58	A2	9.00	.00	74	6	47	148	54	8.83
374	30.0C	500	113	18: 1:54	-27: 5:25	186241	-0:15	-2:38	A2	9.00	.00	146	28	115	677	34	9.33
375	30.0C	516	121	18: 2: 3	-27:33:24	186247	-0:21	0:46	A2	9.00	.00	136	12	113	234?L	19	9.97
376	5C	374	71	18: 2: 6	-24:24:10	186247	0: 2	2:40				362	123	30	13150	7200	3.49
377	3.0C	366	71	18: 2: 6	-24:24:10	186247	-0: 4	2: 6	0	6.79	.00	468	1160	130	390000?	49000	1.40
378	30.0C	374	60	18: 2: 6	-24:24:10	186247	0: 4	7:58	0	6.79	.00	420	28	388	634	1150	6.44
379	3.0L	574	172	18: 2: 9	-29: 5:34	186248	0: 2	-0:48	B8	8.70	.00	82	13	45	1063 L	75	8.47
380	10.0C	577	161	18: 2: 9	-29: 5:34	186248	0: 5	-0:25	B8	8.70	.00	138	33	98	1063 L	47	8.98
381	30.0C	591	158	18: 2: 9	-29: 5:34	186248?	0:27	-0:58	B8	8.70	.00	424	99	371	3593 H	5700*	4.70
382	3.0L	514	146	18: 2:10	-27:42: 4	186249	-0: 5	-1:16	B9*	9.00	.00	409	22	381	539 H		
383	3.0L	516	152	18: 2:10	-27:42: 4	186249?	0:16	-5:55	B9*	9.00	.00	409	22	381	539 H		
384	3.0C	509	138	18: 2:10	-27:42: 4	186249	-0: 5	1: 4	B9*	9.00	.00	49	5	25	104	176	7.54
385	10.0C	517	135	18: 2:10	-27:42: 4	186249	-0: 8	-0:27	B9*	9.00	.00	116	31	44	13470H	186	7.48
386	10.0C	520	143	18: 2:10	-27:42: 4	186249?	-0: 8	-0:27	B9*	9.00	.00	96	28	44	10340	141	7.78
387	30.0C	522	126	18: 2:10	-27:42: 4	186249	-0:14	0: 9	B9*	9.00	.00	187	99	117	4086 H		
388	30.0C	526	132	18: 2:10	-27:42: 4	186249?	0: 8	-7:16	B9*	9.00	.00	211	149	107	9250 H	1120*	5.52
389	3.0L	522	150	18: 2:15	-27:54:39	NO*	-0: 7	0: 9				412	16	378	426	810	6.82
390	10.0C	524	142	18: 2:15	-27:54:39	NO*	0: 7	-0: 9				93	18	43	6810	103	8.12
391	3.0L	455	129	18: 2:16	-26:38: 4	186252	-0:14	2:43	B8	8.60	.00	406	44	375	975	1550	6.12
392	10.0C	470	116	18: 2:16	-26:38: 4	186252	-0:14	1:39	B8	8.60	.00	90	20	49	557 L		
393	10.0C	465	120	18: 2:16	-26:38: 4	186252	0:15	4:26	B8	8.60	.00	91	23	47	713 L		
394	30.0C	472	111	18: 2:16	-26:38: 4	186252	0: 7	3:52	B8	8.60	.00	179	91	108	4191	205*	7.37
395	30.0C	469	114	18: 2:16	-26:38: 4	186252?	0:23	6:25	B8	8.60	.00	167	34	108	1211?L	315*	6.90
396	10.0C	555	157	18: 2:17	-28:49:51	NO*	0: 3	-0:19				86	17	44	510	90	8.27
397	30.0C	570	148	18: 2:17	-28:49:51	NO*	-0: 4	0:19				141	41	100	1324	60	8.71
398	1.0L	911	312	18: 2:21	-36:35: 3	209691?	-0:27	0:13	B8	7.80	.00	123	31	88	820 H	1140	6.45
399	3.0L	910	313	18: 2:21	-36:35: 3	209691?	-0:27	0:16	B8	7.80	.00	384	69	308	2743 H	3050	5.38
400	3.0C	905	306	18: 2:21	-36:35: 3	209691?	-0:26	0:28	B8	7.80	.00	100	49	23	2090 H	1000	5.64

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OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAD NO.	A R.A.	A DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	BG	DENSITY VOLUME	CORR. V/E	UV MAG.
401	10.0C	913	303	18: 2:21	-36:35: 3	209691?	-0:24	-0:18	B8	7.80	.00	296	112	39	10051 H	1290	5.37
402	30.0C	919	294	18: 2:21	-36:35: 3	209691?	-0:38	1: 1	B8	7.80	.00	329	262	86	23443 H	2240	4.76
403	1.0L	339	66	18: 2:26	-23:43:12	186255/	-0:19	4:57	B3	8.30	.00	143	42	100	1246 H	3622	5.19
404	3.0L	338	68	18: 2:26	-23:43:12	186255/	-0:19	4:21	B3	8.30	.00	444	20	367	1117 L	7974	4.33
405	.5C			18: 2:26	-23:43:12	186255			B3	8.30	.00			32		1844	4.98
406	3.0C	334	60	18: 2:26	-23:43:12	186255	-0: 5	3:27	B3	8.30	.00	140	71	29	3702 H	1700	5.07
407	10.0C	342	58	18: 2:26	-23:43:12	186255	-0: 5	2: 5	B3	8.30	.00	363	175	53	168660H	2557	4.62
408	30.0C	346	50	18: 2:26	-23:43:12	186255	-0: 5	4:57	B3	8.30	.00	401	258	144	31490 H	3750E	4.20
409	3.0L	584	178	18: 2:28	-29:16:54	186256	-0: 8	-3:54	A2	7.03	.00	413	15	374	419?	810	6.82
410	3.0L	627	198	18: 2:35	-30:25:35	209696	-0: 4	4:13	K0	3.07	.00	407	10	383?	221?	495	7.36
411	1.0L	691	233	18: 2:44	-31:55:15	209701?	0:37	2:52	A5	9.70	9.85	141	34	98	9902H	2407	5.64
412	3.0L	694	231	18: 2:44	-31:55:15	209701	0:16	-0:45	A5	9.70	9.85	388	21	350	605 H	2011	5.83
413	3.0L	679	224	18: 2:48	-31:29:41	209703/	0: 6	-5:34	B8	8.76	8.49	157	61	365	2200 H	3100	5.36
414	10.0C	680	211	18: 2:48	-31:29:41	209703/	-0: 2	-1:22	B8	8.76	8.49	157	61	42	2950 H	390	6.67
415	30.0C	685	203	18: 2:48	-31:29:41	209703/	-0: 1	0: 1	B8	8.76	8.49	199	136	88	7914 H	590	6.22
416	3.0L	679	224	18: 2:49	-31:34:36	209704	0: 6	-0:47	B8	8.92	8.69	415	71	385	2200 H	3100	5.36
417	3.0C	675	218	18: 2:49	-31:34:36	209704	0:11	-2: 5	B8	8.92	8.69	98	34	22	1264H	645	6.12
418	10.0C	680	211	18: 2:49	-31:34:36	209704/	-0: 2	3:33	B8	8.92	8.69	157	61	42	2950 H	390	6.67
419	30.0C	685	203	18: 2:49	-31:34:36	209704/	-0: 2	4:55	B8	8.92	8.69	199	136	88	7914 H	590*	6.22
420	30.0C	685	212	18: 2:49	-31:34:36	209704?	0:40	-0: 1	B8	8.92	8.69	113	5	98	1142L		
421	1.0L	480	138	18: 2:50	-26:58:49	186264	-0: 9	0:53	B3	8.60	.00	132	15	96	416 L	946	6.65
422	3.0L	479	140	18: 2:50	-26:58:49	186264	-0:11	0:59	B3	8.60	.00	436	54	380	2137	3000	5.40
423	3.0C	475	131	18: 2:50	-26:58:49	186264	-0:13	1:35	B3	8.60	.00	112	29	24	1413	630	5.91
424	10.0C	482	129	18: 2:50	-26:58:49	186264	-0: 8	1:20	B3	8.60	.00	284	66	43	5795	787	5.15
425	30.0C	487	121	18: 2:50	-26:58:49	186264	-0: 9	1:27	B3	8.60	.00	335	145	113	14011	1570	5.15
426	1.0L	586	184	18: 2:51	-29:26:13	186265	0: 3	-0:18	B5	8.50	.00	171	29	100	1178 H	1500	6.15
427	3.0C	586	185	18: 2:51	-29:26:13	186265	-0: 3	-1:22	B5	8.50	.00	442	63	384?	2183	3150	5.34
428	3.0C	581	177	18: 2:51	-29:26:13	186265	-0: 1	0:28	B5	8.50	.00	186	35	25	2263	1000	5.64
429	10.0C	589	174	18: 2:51	-29:26:13	186265	0: 3	-0:57	B5	8.50	.00	352	91	43	85870	1293	5.36
430	30.0C	595	163	18: 2:51	-29:26:13	186265	-0:20	1: 6	B5	8.50	.00	356	197	104	19478	2080	4.85
431	1.0L	358	83	18: 3: 0	-24:12: 4	186268	-0:12	2:50	B9*	8.10	.00	159	58	100	1923 H	3131	5.35
432	3.0L	357	86	18: 3: 0	-24:12: 4	186268	-0: 5	2: 2	B9*	8.10	.00	459	56	415	1845	11481	3.93
433	.5C			18: 3: 0	-24:12: 4	186268			B9*	8.10	.00			32		2460	4.66
434	3.0C	353	77	18: 3: 0	-24:12: 4	186268/	-0: 6	2:31	B9*	8.10	.00	182	117	27	6141 H	2600	4.60
435	10.0C	361	74	18: 3: 0	-24:12: 4	186268	-0: 8	0:50	B9*	8.10	.00	397	212	51	17996 H	3607	4.25
436	1.0L	803	274	18: 3: 1	-34:19:15	209711	-0:19	0:13	B8	7.98	7.46	119	92	313	313 L	1052	6.54
437	3.0L	803	276	18: 3: 1	-34:19:15	209711	-0:16	-1:20	B8	7.98	7.46	396	49	339	1679	2588	5.56
438	3.0C	798	268	18: 3: 1	-34:19:15	209711	-0:15	-1: 6	B8	7.98	7.46	85	23	23	909	490	6.42
439	10.0C	806	265	18: 3: 1	-34:19:15	209711	-0:17	-0:19	B8	7.98	7.46	244	70	44	4854	685	6.06
440	30.0C	811	257	18: 3: 1	-34:19:15	209711	-0:17	1: 7	B8	7.98	7.46	265	139	93	10000	960*	5.69
441	30.0C	808	266	18: 3: 1	-34:19:15	209711?	0:32	-0:24	B8	7.98	7.46	124	5	89	1492L		
442	3.0L	809	280	18: 3: 7	-34:30:28	209714/	-0:13	1: 2	B8	8.71	8.31	382	26	343	707	1050	6.54
443	3.0C	806	273	18: 3: 7	-34:30:28	209714/	-0:17	-1: 3	B8	8.71	8.31	55	9	25	230	230	7.25
444	10.0C	814	270	18: 3: 7	-34:30:28	209714/	-0:13	-0:44	B8	8.71	8.31	145	45	49	2064	280	7.03
445	30.0C	818	265	18: 3: 7	-34:30:28	209714/	-0: 2	-0:15	B8	8.71	8.31	191	116	89	6100	410	6.62
446	3.0L	510	159	18: 3: 9	-27:47: 8	NO*	0: 7	2:51				417	22	377	684	1140	6.45
447	10.0C	513	148	18: 3: 9	-27:47: 8	NO*	0: 3	2:32				73	5	43	137	78	8.43
448	30.0C	525	140	18: 3: 9	-27:47: 8	NO*	-0:11	-5:22				182	74	107	3600	210	7.35
449	3.0L	809	280	18: 3:11	-34:31:14	209718/	-0:18	1:48	B8	9.24	9.05	382	26	343	707 H	1050	6.54
450	3.0C	806	273	18: 3:11	-34:31:14	209718/	-0:21	-0:17	B8	9.24	9.05	56	9	25	230	230	7.25

## SAGITTARIUS WEST, R.A. 18:34 DEC. -30:24 (6 FRAMES)

OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAO NO.	A R.A.	A DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	BO	DENSITY VOLUME	CORR. V/E	UV MAG.
451	10.0C	814	270	18: 3:11	-34:31:14	209718/	-0:18	0: 2	88	9.24	9.05	145	45	49	2064 H	280	7.03
452	30.0C	818	265	18: 3:11	-34:31:14	209718/	-0: 7	0:31	88	9.24	9.05	191	116	89	6100	410	6.62
453	3.0L	545	173	18: 3:17	-28:34: 1	186278	-0: 5	1:22	88	9.20	.00	405	10	376	247	550	7.25
454	10.0C	549	163	18: 3:17	-28:34: 1	186278	-0: 1	1: 1	88	9.20	.00	92	19	44	596	100	8.16
455	30.0C	555	152	18: 3:17	-28:34: 1	186278	-0:18	0:31	88	9.20	.00	159	69	104	2111	115	8.00
456	10.0C	348	75	18: 3:22	-23:56:32	NO*	0: 0	-0:13				99	61	53	18380	254	7.14
457	30.0C	353	67	18: 3:22	-23:56:32	NO*	0: 0	0:12				248	112	172	8000	1000	5.64
458	3.0C	353	77	18: 3:25	-24: 9:54	1862827	-0:31	0:21	89	9.00	.00	182	117	30	5790 H	410	4.41
459	3.0L	463	144	18: 3:26	-26:42:27	NO	0: 6	0:57				389	5	366	120	310	7.87
460	10.0C	468	133	18: 3:26	-26:42:27	NO	-0: 1	-1:20				58	5	42	120	52	8.87
461	30.0C	473	124	18: 3:26	-26:42:27	NO	-0: 5	0:24				142	75	104	1896	93	8.24
462	3.0L	713	245	18: 3:27	-32:23:25	209720/	0: 2	-1:58	88	8.82	8.63	387	19	353	494	820	6.81
463	10.0C	717	234	18: 3:27	-32:23:25	209720/	-0: 2	-2: 9	88	8.82	8.63	84	21	38	659	110	8.05
464	30.0C	723	223	18: 3:27	-32:23:25	209720	-0:21	-0:30	88	8.82	8.63	130	56	86	1773	85	8.33
465	10.0C	519	153	18: 3:28	-27:48:43	NO	-0: 2	-5:11				83	9	48	251	65	8.63
466	30.0C	516	143	18: 3:28	-27:48:43	NO	0: 3	5:11				135	20	100	573	29	9.51
467	1.0L	536	172	18: 3:35	-28:22:11	186286	-0: 0	1: 4	AD	7.33	.00	133	15	96	422	1108	6.48
468	3.0L	536	173	18: 3:35	-28:22:11	186286	-0: 4	0: 0	AD	7.33	.00	426	60	376	2015 H	2800	5.47
469	3.0C	531	166	18: 3:35	-28:22:11	186286	-0: 1	0:11	AD	7.33	.00	122	25	26	1220 H	580	6.24
470	10.0C	539	163	18: 3:35	-28:22:11	186286	0: 2	1:14	AD	7.33	.00	292	62	42	52870H	677	6.07
471	30.0C	542	159	18: 3:35	-28:22:11	186286	0:23	1: 1	AD	7.33	.00	316	136	94	12899 H	1220	5.43
472	3.0L	567	188	18: 3:36	-29: 2:34	186287/	0: 6	-3:51	AD	8.10	.00	411	55	369	1863 H	2550	5.57
473	3.0C	561	179	18: 3:36	-29: 2:34	186287/	0: 7	-0:52	AD	8.10	.00	69	18	23	560	350	6.79
474	10.0C	569	177	18: 3:36	-29: 2:34	186287/	0:11	-2:16	AD	8.10	.00	174	61	41	33820H	404	6.63
475	30.0C	572	172	18: 3:37	-32:30:16	209722/	0:24	-0:43	AD	8.10	.00	248	148	94	9600 H	830	5.85
476	3.0L	713	245	18: 3:37	-32:30:16	209722/	-0:10	4:53	89	9.60	9.75	387	19	353	494 H	820	6.81
477	10.0C	717	234	18: 3:37	-32:30:16	209722/	-0:14	4:42	89	9.60	9.75	84	21	38	659 H	110	8.05
478	3.0L	567	188	18: 3:44	-28: 4:52	186288/	-0: 1	-1:33	89	7.90	.00	411	55	369	1863 H	2550	5.57
479	3.0C	561	179	18: 3:44	-28: 4:52	186288/	0: 0	1:26	89	7.90	.00	69	18	23	560	350	6.79
480	10.0C	569	177	18: 3:44	-29: 4:52	186288/	0: 4	0: 2	89	7.90	.00	174	61	41	33820H	404	6.63
481	30.0C	572	172	18: 3:44	-29: 4:52	186288/	0:17	1:35	89	7.90	.00	248	148	94	9600 H	830	5.85
482	1.0L	437	133	18: 3:49	-26: 6:25	NO*	0: 6	0:49				113	5	92	105	1155	6.44
483	3.0L	437	135	18: 3:49	-26: 6:25	NO*	0: 3	-1:17				415	59	373	2500	3300	5.29
484	3.0C	432	126	18: 3:49	-26: 6:25	NO*	0: 3	0:26				65	15	25	485	310	6.92
485	10.0C	440	123	18: 3:49	-26: 6:25	NO*	0: 0	-0:30				159	53	41	30280	498	6.40
486	30.0C	446	112	18: 3:49	-26: 6:25	NO*	-0:11	0:29				265	117	109	8704?	790	5.90
487	3.0L	497	159	18: 3:50	-27:30:53	186292	-0:12	2:12	85	9.00	.00	412	16	362	617	960	6.64
488	10.0C	501	149	18: 3:50	-27:30:53	186292	-0: 8	-0:13	85	9.00	.00	97	19	44	650 L	110	8.05
489	30.0C	506	141	18: 3:50	-27:30:53	186292	-0:13	1:32	85	9.00	.00	156	54	101	2071 L	110	8.05
490	3.0L	430	131	18: 3:52	-25:57:10	NO*	0:14	3:32				399	14	373	366	785	6.86
491	1.0L	683	239	18: 3:56	-31:50:39	NO*	-0:14	-3:33				129	7	95	199?	576	7.20
492	3.0L	689	238	18: 3:56	-31:50:39	NO*	-0:25	0:44				388	6	363	132	1167	6.43
493	3.0L	947	347	18: 3:58	-37:31:58	209728?	-0:18	-1:30	89	9.30	8.94	306	21	268	800 H	890	6.72
494	10.0C	950	337	18: 3:58	-37:31:58	209728	-0:18	-1:30	89	9.30	8.94	75	28	37	802	130	7.87
495	30.0C	955	330	18: 3:58	-37:31:58	209728	-0:18	0: 4	89	9.30	8.94	125	75	78	2460	120	7.96
496	3.0L	633	220	18: 4: 8	-30:40:13	209733	0: 2	0:49	89	8.89	8.50	404	26	354	978 H	1350	6.27
497	3.0C	629	212	18: 4: 8	-30:40:13	209733	0: 1	-0: 9	89	8.89	8.50	56	9	22	243	240	7.20
498	10.0C	637	210	18: 4: 8	-30:40:13	209733	0: 6	-0:18	89	8.89	8.50	128	30	41	1363	160	7.64
499	30.0C	642	202	18: 4: 8	-30:40:13	209733	0: 1	0:18	89	8.89	8.50	173	63	98	2884	145	7.75
500	3.0L	610	210	18: 4:10	-30:11: 3	209734	-0: 5	3: 7	AD	9.32	9.23	392	15	363	380?H	730	6.94



PAGE, CARRUTHERS, AND HECKATHORN

SAGITTARIUS WEST, R.A. 18:34 DEC. -30:24 (6 FRAMES)

OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAO NO.	Δ R.A.	Δ DEC.	SPEC. TYPE	V. MAG.	P. MAG.	PEAK DEN.	NO. OF POINTS	B.G.	DENSITY VOLUME	CORR. V/E	UV MAG.
501	10.0C	848	301	18: 4:19	-35:23:46	209741	0: 0	-0:26		8.67	9.20	63	4	40	87	45	9.03
502	30.0C	853	295	18: 4:19	-35:23:46	209741	0: 5	-0:18		8.67	9.20	110	27	88	624	31	9.43
503	3.0L	394	119	18: 4:22	-25: 6:42	186306	-0:14	-1:59	B	8.40	.00	401	160	352	5471 H	8600	4.25
504	10.0C	394	109	18: 4:22	-25: 6:42	186306	-0: 3	0:11	B	8.40	.00	89	23	47	664	110	8.05
505	30.0C	398	101	18: 4:22	-25: 6:42	186306	0: 0	2:36	B	8.40	.00	173	82	114	2947	170	7.58
506	3.0L	463	153	18: 4:28	-26:41:59	186310	-0:16	-3:57	A0	8.80	.00	402	18	371	433	820	6.81
507	10.0C	463	141	18: 4:28	-26:41:59	186310	-0:12	0:21	A0	8.80	.00	67	5	44	108 L	49	8.93
508	3.0L	412	132	18: 4:31	-25:36: 3	186315	-0: 1	0: 6	B9	8.50	.00	398	8	374	184	440	7.49
509	10.0C	415	120	18: 4:31	-25:36: 3	186315	-0: 4	0:40	B9	8.50	.00	113	25	51	976	135	7.83
510	30.0C	419	112	18: 4:31	-25:36: 3	186315	-0: 3	1:56	B9	8.50	.00	205	49	113	2675	155*	7.68
511	30.0C	423	116	18: 4:31	-25:36: 3	186315	0: 9	-4:31	B9	8.50	.00	137	4	114	887L	410	7.57
512	3.0L	829	305	18: 4:33	-35: 1:46	209746	-0:10	-2:11	B8	8.66	8.22	349	8	323	194 L	203	7.38
513	3.0C	823	296	18: 4:33	-35: 1:46	209746	-0:18	0: 8	B8	8.66	8.22	49	7	23	160 L	225	7.27
514	10.0C	831	293	18: 4:33	-35: 1:46	209746	-0:17	0:41	B8	8.66	8.22	116	38	40	1665	225	7.43
515	30.0C	837	284	18: 4:33	-35: 1:46	209746?	-0:31	0:34	B8	8.66	8.22	162	84	92	3663	195	7.39
516	3.0L	292	75	18: 4:39	-22:54:17	186320/	-0:15	4:20	B2	9.10	.00	397	9	375	200 L	480	6.34
517	3.0C	286	70	18: 4:39	-22:54:17	186320/	0: 6	4: 6	B2	9.10	.00	66	31	23	982	530	6.66
518	10.0C	294	67	18: 4:39	-22:54:17	186320/	0: 3	3:24	B2	9.10	.00	159	61	48	3000	395E	7.28
519	3.0L	305	88	18: 4:43	-23: 6:45	186324	0:13	-4:39	B9	8.40	.00	386	10	354	2572L	535	7.49
520	3.0C	297	74	18: 4:43	-23: 6:45	186324	0: 0	2: 3	B9	8.40	.00	49	(6)	28	117 L	184	7.49
521	10.0C	304	71	18: 4:43	-23: 6:45	186324	-0: 7	2:52	B9	8.40	.00	112	46	45	1730	306	6.94
522	30.0C	308	64	18: 4:43	-23: 6:45	186324	0: 1	4:48	B9	8.40	.00	250	86	128	4900	390E	6.67
523	3.0L	291	77	18: 4:48	-22:53:13	186325/	-0:11	2:27	B3	8.50	.00	397	9	375	200 L	480	7.39
524	3.0C	286	70	18: 4:48	-22:53:13	186325/	-0: 2	3: 3	B3	8.50	.00	66	31	23	982	530	6.34
525	10.0C	294	67	18: 4:48	-22:53:13	186325/	-0: 6	2:20	B3	8.50	.00	159	61	48	3000	395E	6.66
526	3.0L	582	206	18: 4:50	-29:34:20	NO*	-0: 6	0:53				396	10	364	252	550	7.25
527	10.0C	587	195	18: 4:50	-29:34:20	NO*	-0: 7	-1: 0				73	10	41	260	70	8.55
528	30.0C	590	191	18: 4:50	-29:34:20	NO*	0:12	0: 6				124	39	87	1137	50	8.91
529	3.0L	475	165	18: 4:52	-27: 8: 2	186327	-0: 2	2:39	A0	9.30	.00	399	15	365?	429 H	780	6.87
530	10.0C	479	154	18: 4:52	-27: 8: 2	186327	-0: 3	0:42	A0	9.30	.00	81	17	41	518	94	8.22
531	30.0C	484	146	18: 4:52	-27: 8: 2	186327	-0: 8	2:26	A0	9.30	.00	137	47	98	1422	64	8.64
532	3.0L	484	168	18: 4:57	-27:19:20	186331	-0:12	0:56	B9	8.60	.00	426	59	372	1686 H	2350	5.66
533	3.0C	479	161	18: 4:57	-27:19:20	186331	-0: 7	2:14	B9	8.60	.00	53	5	24	132 L	190	7.46
534	10.0C	487	158	18: 4:57	-27:19:20	186331	-0: 5	0:51	B9	8.60	.00	122	26	45	1157	155	7.68
535	30.0C	491	152	18: 4:57	-27:19:20	186331	0: 1	1:41	B9	8.60	.00	182	72	106	3010	160	7.64
536	3.0L	401	131	18: 5: 1	-25:21:26	186332	-0:19	-1: 3	B2	8.50	.00	407	24	364	665	1100	6.49
537	3.0C	394	124	18: 5: 1	-25:21:26	186332	-0: 1	0:26	B2	8.50	.00	54	10	24	250 L	245	7.18
538	10.0C	402	121	18: 5: 1	-25:21:26	186332	-0: 5	-0:28	B2	8.50	.00	127	51	44	2133 L	295	6.98
539	3.0L	803	298	18: 5: 4	-34:31: 6	209755	-0:17	-1: 8	B8	8.20	7.87	370	7	342	174 L	385	7.64
540	3.0C	798	291	18: 5: 4	-34:31: 6	209755	-0:17	-0:55	B8	8.20	7.87	48	11	22	255 L	255	7.13
541	10.0C	806	288	18: 5: 4	-34:31: 6	209755	-0:14	-0:35	B8	8.20	7.87	124	59	44	2668	350	6.79
542	30.0C	811	281	18: 5: 4	-34:31: 6	209755	-0:16	-0:18	B8	8.20	7.87	182	138	95	6661	490	6.42
543	3.0L	379	126	18: 5: 5	-24:53:57	186334	0: 3	-1:13	A3	9.40	.00	386	6	347	2097H	425	7.53
544	3.0L	885	335	18: 5: 8	-36:19:43	209758	-0:15	-0: 1	A0	9.00	8.70	322	31	283	1392 H	1000	6.59
545	10.0C	889	324	18: 5: 8	-36:19:43	209758?	-0:21	-0:30	A0	9.00	8.70	92	34	37	1222 H	175	7.55
546	30.0C	894	316	18: 5: 8	-36:19:43	209758?	-0:27	1:27	A0	9.00	8.70	141	90	82	3448 H	205*	7.37
547	30.0C	892	320	18: 5: 8	-36:19:43	209758	-0: 2	0:45	A0	9.00	8.70	136	23	136	828	308	7.16
548	3.0L	524	187	18: 5:13	-28:13: 3	NO	-0: 5	-0: 1				384	11	349	67	37	9.24
549	10.0C	524	179	18: 5:13	-28:13: 3	NO	0: 8	-0:31				65	3	41	230	19	9.97
550	30.0C	530	169	18: 5:13	-28:13: 3	NO	-0: 4	0:32				115	10	89			

## SAGITTARIUS WEST, R.A. 18:34 DEC. -30:24 (6 FRAMES)

OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAO NO.	A R.A.	A DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	BO	DENSITY VOLUME	CORR. V/E	UV MAG.
551	3.0L	314	96	18: 5:17	-23:26:24	186340	-0: 6	0:22	89	9.50	.00	395	89	346	27477H	3350	5.28
552	10.0C	316	85	18: 5:17	-23:26:24	186340	-0: 6	2: 0	89	9.50	.00	99	37	45	1397	265	7.09
553	30.0C	319	81	18: 5:17	-23:26:24	186340	0:15	2:38	89	9.50	.00	308	295	130	31500 H	4000	4.13
554	10.0C	283	72	18: 5:26	-22:40:42							93	32	45?	1014	150E	7.71
555	3.0L	604	221	18: 5:31	-30: 9:25	209762	-0:16	2:11	A2	8.63	8.55	389	12	358	278?	580	7.19
556	1.0L	446	159	18: 5:32	-26:30:27	NO	0: 2	1:40				131	9	94	263?		
557	1.0L	450	161	18: 5:32	-26:30:27	NO	0: 4	-3:54				143	17	96	560	1350*	6.27
558	3.0L	445	159	18: 5:32	-26:30:27	NO	-0: 5	2:15				377	30	347	900	1300	6.31
559	3.0L	650	245	18: 5:39	-31:15:25	209767	0: 4	2:10	89	9.38	9.28	388	15	355	430 H	750	6.91
560	3.0C	644	237	18: 5:39	-31:15:25	209767	0: 5	5:10	89	9.38	9.28	59	9	21	257	245	7.18
561	10.0C	652	230	18: 5:39	-31:15:25	209767	-0:29	0:20	89	9.38	9.28	70	12	41	281 L		
562	10.0C	652	235	18: 5:39	-31:15:25	209767	0: 9	3:49	89	9.38	9.28	134	52	38	22860H	330*	6.85
563	30.0C	657	227	18: 5:39	-31:15:25	209767	0: 7	4: 0	89	9.38	9.28	181	133	84	6899 H	480	6.44
564	3.0L	461	167	18: 5:41	-26:52:30	186345	-0:18	1:47	85	9.00	.00	393	8	363	186 L	435	7.50
565	10.0C	465	157	18: 5:41	-26:52:30	186345	-0:13	0:32	85	9.00	.00	75	9	41	247 L	68	8.58
566	30.0C	470	148	18: 5:41	-26:52:30	186345	-0:17	2:16	85	9.00	.00	135	42	95	1305 L	58	8.75
567	3.0L	650	245	18: 5:44	-31:10: 7	209771	-0: 1	-3: 7	A0	7.69	.00	388	16	355	430	750	6.91
568	3.0C	644	237	18: 5:44	-31:10: 7	209771	-0: 1	-3: 7	A0	7.69	.00	59	9	21	257 L	245	7.18
569	10.0C	652	235	18: 5:44	-31:10: 7	209771	0: 4	-1:28	A0	7.69	.00	134	52	38	22860	330	6.85
570	30.0C	657	227	18: 5:44	-31:10: 7	209771	0: 2	-1:17	88	6.27	.00	180	41	92	6899	480	6.44
571	1.0L	401	141	18: 5:48	-25:28:53	186350	-0: 7	1:18	88	6.27	.00	180	41	92	1803	2507	5.59
572	3.0L	400	143	18: 5:48	-25:28:53	186350	-0: 4	0:59	88	6.27	.00	445	131	364	8500	14000	3.71
573	5C			18: 5:48	-25:28:53	186350			88	6.27	.00		27		1696		5.07
574	3.0C	396	135	18: 5:48	-25:28:53	186350	-0: 1	1: 3	88	6.27	.00	256	55	24	4415	1783	5.01
575	10.0C	404	132	18: 5:48	-25:28:53	186350	-0: 4	0:10	88	6.27	.00	395	115	40	139390	2216	4.78
576	30.0C	408	125	18: 5:48	-25:28:53	186350	0: 2	0:58	88	6.27	.00	386	417	108	41397	4600	3.98
577	3.0L	776	298	18: 5:54	-34: 1: 1	209777	-0:10	-1: 6	88	9.25	9.02	379	14	348	334	1170*	6.42
578	3.0L	774	303	18: 5:54	-34: 1: 1	209777	0:20	-2:18	88	9.25	9.02	368	10	334	281?		
579	3.0C	771	290	18: 5:54	-34: 1: 1	209777	-0: 9	-0:54	88	9.25	9.02	53	8	23	200	225	7.27
580	10.0C	779	287	18: 5:54	-34: 1: 1	209777	-0: 8	-1:43	88	9.25	9.02	128	31	46	1409	185	7.48
581	30.0C	782	283	18: 5:54	-34: 1: 1	209777	0:13	0:36	88	9.25	9.02	172	69	101	2926	150	7.71
582	1.0L	899	348	18: 5:58	-36:40:54	209779	-0:21	0:44	80	6.58	.00	180	64	88	3032	4500	4.95
583	3.0L	898	349	18: 5:58	-36:40:54	209779	-0:21	0:50	80	6.58	.00	428	103	293	7949	11000	3.98
584	5C	902	342	18: 5:58	-36:40:54	209779	-0:15	0:23	80	6.58	.00	71	28	26	861	2900	4.48
585	3.0C	893	341	18: 5:58	-36:40:54	209779	-0:20	0:59	80	6.58	.00	223	82	23	6267	3000	4.45
586	10.0C	902	339	18: 5:58	-36:40:54	209779	-0:15	-1:21	80	6.58	.00	414	149	40	21065	3900	4.16
587	30.0C	906	333	18: 5:58	-36:40:54	209779	-0: 7	0:50	80	6.58	.00	396	348	79	46133	4050	4.12
588	3.0L	310	107	18: 6: 5	-23:26:40	186360	0: 2	-0:20	89*	9.30	.00	383	13	350	400 H	690	7.00
589	10.0C	313	92	18: 6: 5	-23:26:40	186360	-0:16	1:43	89*	9.30	.00	105	95	48	3642 H	520	6.36
590	3.0L	279	88	18: 6:12	-22:47:11	186365	-0:26	4:36	88	8.70	.00	376	15	350	350 L	630	7.10
591	10.0C	282	81	18: 6:12	-22:47:11	186365	-0: 5	3: 6	88	8.70	.00	92	40	45	1306	180	7.51
592	30.0C	287	72	18: 6:12	-22:47:11	186365	-0:10	4:22	88	8.70	.00	221	74	128	4632	355E	6.77
593	1.0L	334	116	18: 6:14	-23:59:51	186366	-0: 5	2: 8	80	7.48	.00	180	48	99	2142	3300	5.29
594	3.0L	333	116	18: 6:14	-23:59:51	186366	-0:12	2:48	80	7.48	.00	433	54	339	3938	4300	5.00
595	5C	337	110	18: 6:14	-23:59:51	186366	0: 1	1:53	80	7.48	.00	70	24	28	697	2832	4.51
596	3.0C	329	109	18: 6:14	-23:59:51	186366	-0:11	1:33	80	7.48	.00	258	78	26	6698	2925	4.47
597	10.0C	337	107	18: 6:14	-23:59:51	186366	-0:10	0:15	80	7.48	.00	411	130	46	197450	3700	4.22
598	30.0C	340	100	18: 6:14	-23:59:51	186366	-0: 1	3: 6	80	7.48	.00	421	640	113	100000?H	11000	3.03
599	3.0L	371	133	18: 6:16	-24:49:42	186368	-0:18	0:41	88	9.40	.00	388	11	358	275	575	7.20
600	30.0C	377	117	18: 6:16	-24:49:42	186368	-0: 2	2: 6	88	9.40	.00	137	5	115	116 L	15	10.23

PAGE, CARRUTHERS, AND HECKATHORN

SAGITTARIUS WEST. R.A. 18:34 DEC. -30:24 (6 FRAMES)

OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAO NO.	A R.A.	A DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	BG	DENSITY VOLUME	CORR. V/E	UV MAG.
601	3.0L	293	103	18: 6:23	-23: 5:10	186371	-0: 1	-0:26	A0	9.30	.00	370	38	338	911?H	1300	6.31
602	3.0L	435	166	18: 6:24	-26:21:12	186372	-0: 1	1:28	A0	9.00	.00	391	27	355	736 H	1130	6.46
603	10.0C	438	156	18: 6:24	-26:21:12	186372	0: 5	0:14	A0	9.00	.00	82	18	38	570	100	8.16
604	30.0C	442	151	18: 6:24	-26:21:12	186372	0:16	0:36	A0	9.00	.00	137	57	89	1953	96	8.20
605	3.0L	361	130	18: 6:28	-24:40:24	186374?	-0:24	4:19	BB	8.90	.00	359	43	358	1330	2000*	5.84
606	3.0L	362	135	18: 6:28	-24:40:24	186374	-0: 0	0:55	BB	8.90	.00	380	3	358	69 L		
607	10.0C	366	123	18: 6:28	-24:40:24	186374	-0: 8	-0:37	BB	8.90	.00	80	22	45	605	105	8.10
608	30.0C	371	114	18: 6:28	-24:40:24	186374	-0:12	1: 4	BB	8.90	.00	172	46	123	1385 L	72	8.51
609	3.0L	317	117	18: 6:33	-23:34:39	186375/	0: 6	-4:25	A2	8.60	.00	455	306	342	19000	31000	2.85
610	10.0C	515	187	18: 6:34	-28: 6:25	NO	-0:12	-0:19				68	8	39	190	61	8.70
611	30.0C	518	184	18: 6:34	-28: 6:25	NO	0:12	0:19				127	34	90	920	42	9.10
612	1.0L	813	319	18: 6:37	-34:52:43	209789	-0:16	-1: 7	B5	9.11	8.79	114	8	90	177 L	480	7.39
613	3.0L	812	320	18: 6:37	-34:52:43	209789	-0:16	-1: 0	B5	9.11	8.79	392	25	331	931	1200	6.40
614	3.0C	807	313	18: 6:37	-34:52:43	209789	-0:15	-0:49	B5	9.11	8.79	68	17	22	546	350	6.79
615	10.0C	815	310	18: 6:37	-34:52:43	209789	-0:11	-0:26	B5	9.11	8.79	175	52	40	3024	385	6.69
616	30.0C	819	305	18: 6:37	-34:52:43	209789	-0: 0	0: 3	B5	9.11	8.79	209	109	87	7133	500	6.40
617	30.0C	861	317	18: 6:38	-35:44:56	209790?	-0:35	1:23	A0	9.90	9.45	107	5	83	111?L	14	10.30
618	3.0L	707	278	18: 6:39	-32:33:50	209791	-0: 7	1:58	BB	9.14	8.90	374	15	345	373	680	7.01
619	3.0C	702	271	18: 6:39	-32:33:50	209791	-0: 3	-0:36	BB	9.14	8.90	51	6	22	148	198	7.41
620	10.0C	710	268	18: 6:39	-32:33:50	209791	-0: 3	-1:26	BB	9.14	8.90	114	32	40	1251	175	7.55
621	30.0C	715	260	18: 6:39	-32:33:50	209791	-0: 8	0:24	BB	9.14	8.90	157	73	3206	160	7.64	
622	3.0C	836	326	18: 6:40	-35:35:39	209792?	-0:12	4: 5	A0	8.88	8.75	45	4	23	86 L	155	7.68
623	10.0C	844	323	18: 6:40	-35:35:39	209792?	-0: 8	4:30	A0	8.88	8.75	105	35	37	14900H	234	7.23
624	1.0L	321	120	18: 6:42	-23:41:27	186379?	-0: 5	-3:44	B	9.10	.00	162	114	90	4684 H	8300	4.29
625	3.0L	317	117	18: 6:42	-23:41:27	186379?	-0: 4	2:22	B	9.10	.00	455	306	342	19000	31000	2.85
626	5.0C	324	114	18: 6:42	-23:41:27	186379?	-0:15	-3:32	B	9.10	.00	54	18	26	423	1820	4.99
627	3.0C	312	108	18: 6:42	-23:41:27	186379?	-0: 8	3:39	B	9.10	.00	181	72	24	51040H	2032	4.87
628	10.0C	320	105	18: 6:42	-23:41:27	186379?	-0:10	1:57	B	9.10	.00	399	177	48	180450H	8400*	3.32
629	10.0C	323	111	18: 6:42	-23:41:27	186379?	0:10	-3:43	B	9.10	.00	397	249	49	234920H	8400*	3.13
630	30.0C	327	103	18: 6:42	-23:41:27	186379?	0:13	-1:20	B	9.10	.00	446	610	113	95000 H	10000	3.13
631	1.0L	321	120	18: 6:43	-23:39:20	186380?	0: 6	5:51	B	8.70	.00	162	114	90	4684 H	8300	4.29
632	3.0L	317	117	18: 6:43	-23:39:20	186380?	-0: 5	0:15	B	8.70	.00	455	306	342	19000	31000	2.85
633	3.0C	312	108	18: 6:43	-23:39:20	186380?	-0: 9	1:32	B	8.70	.00	181	72	26	4960 H	2300	4.74
634	10.0C	320	105	18: 6:43	-23:39:20	186380?	-0:10	-0: 9	B	8.70	.00	399	177	48	18045 H	8400*	3.32
635	10.0C	323	111	18: 6:43	-23:39:20	186380?	0:10	-5:49	B	8.70	.00	397	249	49	23492 H	8400*	3.13
636	30.0C	327	103	18: 6:43	-23:39:20	186380?	0:12	-3:27	B	8.70	.00	446	610	113	95000 H	10000	3.13
637	3.0L	837	333	18: 6:44	-35:30:40	209797?	-0: 8	3:33	BB	8.88	8.58	337	10	312	222 L	430	7.51
638	3.0C	836	326	18: 6:44	-35:30:40	209797?	-0:16	-0:53	BB	8.88	8.58	45	4	23	86 L	155	7.68
639	10.0C	844	323	18: 6:44	-35:30:40	209797?	-0:13	-0:29	BB	8.88	8.58	105	35	37	14900	234	7.23
640	30.0C	849	315	18: 6:44	-35:30:40	209797?	-0:21	0:16	BB	8.88	8.58	156	169	82	6466	465*	6.48
641	30.0C	847	320	18: 6:44	-35:30:40	209797?	0:12	0:17	BB	8.88	8.58	139	18	87	621 L		
642	3.0L	317	117	18: 6:45	-23:39:57	186381?	-0: 6	0:52	BB	9.40	.00	455	306	342	19000	31000	2.85
643	5.0C	320	108	18: 6:45	-23:39:57	186381?	-0: 4	2:39	BB	9.40	.00	52	17	27	379 H	1750	5.03
644	3.0C	315	114	18: 6:45	-23:39:57	186381?	0:11	-4:23	BB	9.40	.00	189	80	24	57610H	2032	4.87
645	10.0C	323	111	18: 6:45	-23:39:57	186381?	0: 8	-5:13	BB	9.40	.00	397	249	49	234920H	8400*	3.32
646	10.0C	320	105	18: 6:45	-23:39:57	186381?	-0:12	0:27	BB	9.40	.00	399	177	48	180450H		
647	30.0C	327	103	18: 6:45	-23:39:57	186381?	0:10	-2:50	BB	9.40	.00	446	610	113	95000 H	10000	3.13
648	30.0C	471	166	18: 6:47	-27: 1:27	NO						113	15	88	346?	22	9.81
649	3.0L	317	117	18: 6:48	-23:37:28	186385/	-0: 9	-1:36	B5	9.50	.00	455	306	342	19000	31000	2.85
650	5.0C	320	108	18: 6:48	-23:37:28	186385/	-0: 7	0:10	B5	9.50	.00	52	17	27	379 H	1750	5.03

## SAGITTARIUS WEST, R.A. 18:34 DEC. -30:24 (6 FRAMES)

OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAO NO.	A R.A.	A DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	BO	DENSITY VOLUME	CORR. V/E	UV MAG.
651	3.0C	315	114	18: 6:48	-23:37:28	186385/	0: 6	-6:49	B5	9.50	.00	189	80	24	57610H	2032	4.87
652	10.0C	320	105	18: 6:48	-23:37:28	186385/	-0:15	-2: 1	B5	9.50	.00	399	177	48	180450H	3500	4.28
653	1.0C	343	108	18: 7: 0	-24: 8	N6559	-1:49	3:40	NEB			94	64	92	66	66	9.56
654	3.0C	331	119	18: 7: 0	-24: 8	N6559	-0:19	-2:30	NEB			58	64	38	228	76	8.46
655	10.0C	339	116	18: 7: 0	-24: 8	N6559	-0:19	-2:51	NEB			140	60	46	3100	310	6.92
656	30.0C	343	129	18: 7: 0	-24: 8	N6559?	-1:15	-6: 5	NEB			141	64	132	335	11	10.56
657	1.0C	321	120	18: 7: 3	-23:47: 0	186389/	-0:15	1:50	B5*	7.64	.00	182	114	90	4684 H	8300	4.29
658	3.0C	317	117	18: 7: 3	-23:47: 0	186389/	-0:27	7: 6	B5*	7.64	.00	455	306	342	19000	31000	2.85
659	.5C	324	114	18: 7: 3	-23:47: 0	186389/	-0: 5	2: 1	B5*	7.64	.00	54	18	26	423	1820	4.99
660	3.0C	315	114	18: 7: 3	-23:47: 0	186389/	-0: 7	2:40	B5*	7.64	.00	189	80	24	57610H	2180	4.79
661	10.0C	323	111	18: 7: 3	-23:47: 0	186389/	-0:11	1:51	B5*	7.64	.00	397	749	49	234820H	4900	3.91
662	30.0C	327	103	18: 7: 3	-23:47: 0	186389/	-0: 8	4:14	B5*	7.64	.00	446	610	113	95000 H	10000	3.13
663	3.0C	557	226	18: 7: 6	-29:13:24	186391	0: 4	-0:20	A2	8.00	.00	379	11	354	257?	540	7.27
664	10.0C	719	280	18: 7: 9	-32:50:53	NO	0:14	-0:27				93	19	41	661	110	8.05
665	30.0C	725	269	18: 7: 9	-32:50:53	NO	-0:13	0:27				141	45	90	1697	80	8.40
666	10.0C	798	309	18: 7:12	-34:32:57	209808	-0:16	-1:11	A0	8.93	8.68	64	5	38	120 L	60	8.71
667	30.0C	804	298	18: 7:12	-34:32:57	209808?	-0:35	0:28	A0	8.93	8.68	111	18	82	472	56	8.79
668	3.0C	307	125	18: 7:14	-23:25:11	186395?	0:18	-6:35	A0	9.00	.00	372	21	322	813 H	1100	6.49
669	30.0C	309	106	18: 7:14	-23:25:11	186395?	0:31	0:45	A0	9.00	.00	144	18	109	4807L	26	9.63
670	3.0C	902	368	18: 7:16	-36:54:46							375	24	292	1139?	1200	6.40
671	3.0C	585	238	18: 7:17	-29:55: 3	186397	-0: 1	3: 3	B9	8.80	.00	391	35	351	1020 H	1400	6.23
672	10.0C	352	130	18: 7:25	-24:27:53	186402	-0: 7	0:26	B8	9.60	.00	77	13	41	375	80	8.40
673	30.0C	357	120	18: 7:25	-24:27:53	186402	-0:16	2:23	B8	9.60	.00	160	59	109	1914	100	8.16
674	1.0C	325	129	18: 7:29	-23:55:47	186406	-0: 8	2:26	B5*	8.80	.00	116	18	88	416	1346	6.27
675	3.0C	324	128	18: 7:29	-23:55:47	186406	-0:16	3: 1	B5*	8.80	.00	434	102	341	5000	3667	5.18
676	3.0C	320	122	18: 7:29	-23:55:47	186406	-0: 9	1:25	B5*	8.80	.00	88	39	24	14650	751	5.96
677	10.0C	328	119	18: 7:29	-23:55:47	186406	-0:13	0:37	B5*	8.80	.00	222	76	49	6000 H	930	5.72
678	3.0C	385	158	18: 7:30	-25:19:53	186407	-0: 7	1:59	B9	9.20	.00	391	53	339	16937H	2100	5.78
679	3.0C	479	196	18: 7:31	-27:25:49	186408	-0:17	-0:16	B9	9.00	.00	384	8	353	186?		
680	3.0C	475	202	18: 7:31	-27:25:49	186408	0:17	2: 9	B9	9.00	.00	386	12	360	259?	975*	6.62
681	1.0C	760	309	18: 7:36	-33:48:39	209817	-0:12	-1:48	B5	6.24	.00	396	93	98	9526 H	24000	3.13
682	3.0C	758	310	18: 7:36	-33:48:39	209817	-0:10	-0:30	B5	6.24	.00	462	220	332	15000 H	26000	3.04
683	.5C	763	303	18: 7:36	-33:48:39	209817	-0: 4	-1:19	B5	6.24	.00	277	61	27	4510 H	12000	2.93
684	3.0C	754	303	18: 7:36	-33:48:39	209817	-0: 3	-0:47	B5	6.24	.00	414	132	24	14356 H	7700	3.42
685	10.0C	762	299	18: 7:36	-33:48:39	209817	-0: 8	-1: 6	B5	6.24	.00	433	305	40	38188	7400	3.46
686	30.0C	767	293	18: 7:36	-33:48:39	209817	-0: 3	-0:11	B5	6.24	.00	411	535	88	70404 L	6700	3.57
687	3.0C	403	169	18: 7:39	-25:41: 6	186409	-0: 8	-2:14	A0	9.40	.00	379	9	349	220?	455	7.45
688	10.0C	836	327	18: 7:48	-35:24: 0	209820?	-0:38	-0:40	A3	9.80	9.71	61	3	37	700	60	8.71
689	30.0C	840	321	18: 7:48	-35:24: 0	209820?	-0:32	1:13	A3	9.80	9.71	108	5	83	118?	14	10.30
690	3.0C	518	221	18: 7:49	-28:20:13	186414	0:14	-3:59	A0	8.60	.00	370	5	340	1357L	305	7.89
691	3.0C	279	110	18: 7:50	-22:54:44	186415?	-0:26	2:13	B9	9.40	.00	361	8	336	175?		
692	3.0C	277	113	18: 7:50	-22:54:44	186415	-0: 7	3:13	B9	9.40	.00	364	6	332	164?		
693	30.0C	287	90	18: 7:50	-22:54:44	186415?	-0:31	3: 1	B9	9.40	.00	131	9	107	189 L		
694	30.0C	285	95	18: 7:50	-22:54:44	186415	-0: 7	3:34	B9	9.40	.00	131	25	103	5807L	45*	9.03
695	3.0C	576	241	18: 7:51	-29:45:49	186417	0: 0	-2:58	A5	8.10	.00	381	4	351	107?	265	8.04
696	3.0C	447	190	18: 7:56	-26:41:12	186419	-0: 7	-4:47	A3	10.00	.00	389	5	360?	1197H	1350*	6.27
697	3.0C	444	193	18: 7:56	-26:41:12	186419?	0:14	-2:38	A3	10.00	.00	382	12	347	3482H		
698	3.0C	570	240	18: 8: 2	-29:30:47	186421	-0: 4	-4:35	A0	9.20	.00	384	25	352	5867H	960	6.64
699	10.0C	688	275	18: 8: 4	-32:13: 0	NO	-0: 4	-1: 1				69	11	37	280	74	8.48
700	30.0C	692	269	18: 8: 4	-32:13: 0	NO	0: 4	1: 2				118	37	84	963	44	9.05

## PAGE, CARRUTHERS, AND HECKATHORN

SAGITTARIUS WEST. R.A. 18:34 DEC. -30:24 (16 FRAMES)

OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAO NO.	$\Delta$ R.A.	$\Delta$ DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	BO	DENSITY VOLUME	CORR. V/E	UV MAG.
701	3.0L	622	263	18: 8: 5	-30:44: 0	209826	0: 5	-3:57	A3	9.55	9.70	371	5	341	1407H	320	7.04
702	3.0L	579	251	18: 8: 6	-29:54:48	186424	0:30	2:41	A0	8.30	.00	384	19	350	488	810	6.82
703	10.0C	586	237	18: 8: 6	-29:54:48	186424	0: 8	-0: 8	A0	8.30	.00	79	7	45	188 L	60	8.71
704	3.0L	316	135	18: 8: 7	-23:46:45	NO						134	11	86	390?	665	7.04
705	3.0L	444	193	18: 8:10	-26:39:25	186426	0: 1	-4:25	A5	9.00	.00	382	12	355	288 H	585	7.18
706	10.0C	586	237	18: 8:15	-29:54:56	186432	-0:17	-2:51	A0	8.90	.00	79	7	45	188 L	60	8.71
707	3.0L	811	339	18: 8:20	-35: 2:14	209832	-0:16	0: 6	88	6.99	.00	387	27	315	1096 L	1280	6.32
708	3.0C	807	332	18: 8:20	-35: 2:14	209832	-0:12	-1:21	88	6.99	.00	79	20	23	704 L	410	6.62
709	10.0C	815	329	18: 8:20	-35: 2:14	209832	-0:14	-0:28	88	6.99	.00	206	57	38	3850 L	505	6.39
710	30.0C	820	321	18: 8:20	-35: 2:14	209832	-0:20	1:28	88	6.99	.00	236	85	83	6399 L	295	6.98
711	3.0L	693	292	18: 8:22	-32:24:58	209833	-0: 8	-0:32	88	8.69	8.32	382	32	337	979 H	1310	6.30
712	3.0C	688	285	18: 8:22	-32:24:58	209833	-0: 1	-0:49	88	8.69	8.32	61	9	21	273	250	7.16
713	10.0C	696	282	18: 8:22	-32:24:58	209833	-0: 1	-1:37	88	8.69	8.32	136	31	38	1590	210	7.35
714	30.0C	700	277	18: 8:22	-32:24:58	209833	0:10	-1:11	88	8.69	8.32	174	68	89	3586	185	7.48
715	10.0C	550	227	18: 8:27	-29: 6:43	NO	0: 5	-1: 3				78	12	46	289	70	8.55
716	30.0C	555	218	18: 8:27	-29: 6:43	NO	-0: 5	1: 3				129	60	84	2050	105	8.10
717	10.0C	785	319	18: 8:30	-34:24:14	209834	-0:16	-1: 6	89	9.10	8.73	75	13	42	335	75	8.47
718	30.0C	791	310	18: 8:30	-34:24:14	209834	-0:19	0: 4	89	9.10	8.73	121	56	79	1674	90*	8.27
719	30.0C	789	314	18: 8:30	-34:24:14	209834	0: 6	-0:37	89	9.10	8.73	123	6	97	1417L		
720	3.0L	579	251	18: 8:32	-29:52: 4	186432	0: 5	-0: 2	A0*	8.90	.00	384	19	350	488 H	810	6.82
721	3.0C	574	243	18: 8:32	-29:52: 4	186432	0: 1	0:35	A0*	8.90	.00	59	7	26	175	205	7.37
722	10.0C	582	241	18: 8:32	-29:52: 4	186432	0: 7	0:28	A0*	8.90	.00	124	27	45	1212 H	160	7.64
723	30.0C	587	233	18: 8:32	-29:52: 4	186432	0: 6	0:37	A0*	8.90	.00	183	80	94	4000 H	220	7.30
724	10.0C	645	263	18: 8:35	-31:16:52	NO	-0: 6	-0:12				77	10	42	274	70	8.55
725	30.0C	649	258	18: 8:35	-31:16:52	NO	0: 5	0:13				118	27	86	718	35	9.30
726	3.0L	327	142	18: 8:36	-24: 4:17	186435?	-0:30	1:35	89	9.20	.00	368	29	311	12677H	1550*	6.12
727	3.0L	325	151	18: 8:36	-24: 4:17	186435?	0:18	-1:13	89	9.20	.00	356	4	332	85?		
728	3.0L	346	155	18: 8:37	-24:27:54	186436	-0:10	-3:20	A0	9.40	.00	367	16	330	5047H		
729	3.0L	342	156	18: 8:37	-24:27:54	186436	0: 3	0:53	A0	9.40	.00	373	56	334	14782H		
730	3.0L	703	299	18: 8:38	-32:39:51	209837	-0: 8	-0:34	88	8.37	7.75	386	17	335	534	805	6.83
731	3.0C	698	292	18: 8:38	-32:39:51	209837	-0: 7	-0:23	88	8.37	7.75	79	14	22	499	320	6.89
732	10.0C	706	289	18: 8:38	-32:39:51	209837	-0: 2	-1:38	88	8.37	7.75	178	39	42	2285	300	6.96
733	30.0C	712	279	18: 8:38	-32:39:51	209837?	-0:22	-1:14	88	8.37	7.75	211	80	95	5214	330	6.85
734	3.0L	323	146	18: 8:39	-24: 0:13	186439	-0: 6	0:23	88	9.20	.00	381	41	331	12752H	1600	6.08
735	30.0C	330	129	18: 8:39	-24: 0:13	186439	0: 2	1:32	88	9.20	.00	141	58	94	2087?	105	8.10
736	10.0C	794	324	18: 8:40	-34:36:20	209840	-0:13	-1:18	A0	8.50	8.18	71	14	38	364 L	80	8.40
737	30.0C	798	317	18: 8:40	-34:36:20	209840	-0:11	1:15	A0	8.50	8.18	122	59	79	2000	95	8.21
738	3.0L	412	183	18: 8:41	-26: 1:57	186441	-0:15	1: 7	A0	9.00	.00	393	19	342	651 H	965	6.53
739	10.0C	415	173	18: 8:41	-26: 1:57	186441	-0:10	-0: 5	A0	9.00	.00	93	25	37	886	140	7.79
740	30.0C	419	164	18: 8:41	-26: 1:57	186441	-0:18	-0:25	A0	9.00	.00	156	79	89	3266	170	7.58
741	10.0C	907	371	18: 8:42	-37: 3:15	209840	-0:12	-0:25	A0	8.50	8.30	62	7	37	160 L	57	8.77
742	30.0C	912	363	18: 8:42	-37: 3:15	209840	-0:18	1:33	A0	8.50	8.30	107	34	78	827 L	40	9.16
743	3.0L	240	113	18: 8:43	-22: 7: 0	186442	0:17	-3:26	B	9.10	.00	355	6	355	1367	320	7.84
744	3.0L	366	168	18: 8:46	-25: 4: 3	186443	0: 2	4:14	A0*	9.20	.00	377	54	337	13862H	1790	5.96
745	3.0L	371	172	18: 8:46	-25: 4: 3	186443	0: 5	-4: 5	A0*	9.20	.00	379	33	335	11862H	1500	6.15
746	1.0L	767	325	18: 8:47	-34: 4:51	209841	-0: 8	-1:12	88	7.11	.00	163	29	91	1153 H	1500	6.15
747	3.0L	766	326	18: 8:47	-34: 4:51	209841	-0: 8	-1: 3	88	7.11	.00	428	66	329	3486 H	4000	5.08
748	3.0C	762	318	18: 8:47	-34: 4:51	209841	-0:15	-1:35	88	7.11	.00	177	39	24	2507	1050	5.52
749	10.0C	769	316	18: 8:47	-34: 4:51	209841	-0: 7	-1:38	88	7.11	.00	369	90	37	9913 H	1478	5.22
750	30.0C	775	306	18: 8:47	-34: 4:51	209841?	-0:26	-0: 1	88	7.11	.00	360	229	84	23261	2170	4.80

## SAGITTARIUS WEST, R.A. 18:34 DEC. -30:24 (6 FRAMES)

OBJECT NO.	EXP. FILTER	X	Y	R.A.	DEC.	SAO NO.	$\Delta$ R.A.	$\Delta$ DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	BG	DENSITY VOLUME	CORR. V/E	UV MAG.
751	1.0L	537	236	18: 8:48	-28:54:50	186444	0: 3	0:57	A0	6.38	.00	126	9	92	259 L	681	7.01
752	3.0L	536	237	18: 8:48	-28:54:50	186444	0: 1	1: 6	A0	6.38	.00	411	31	352	1250 L	1550	6.12
753	3.0C	532	229	18: 8:48	-28:54:50	186444	-0: 4	0:32	A0	6.38	.00	108	16	23	820 L	440	6.54
754	10.0C	539	227	18: 8:48	-28:54:50	186444	-0: 2	0:25	A0	6.38	.00	230	47	38	3507 L	450	6.52
755	30.0C	544	219	18: 8:48	-28:54:50	186444	0: 2	1:43	A0	6.38	.00	273	114	88	9047 L	700	6.03
756	3.0L	569	247	18: 8:49	-29:35: 1	186445	-0:18	-3: 5	B9	8.00	.00	394	12	349	3877		
757	3.0L	566	249	18: 8:49	-29:35: 1	186445	-0: 1	-0:29	B9	8.00	.00	397	25	345	977	2000*	5.84
758	3.0C	561	241	18: 8:49	-29:35: 1	186445	-0: 2	0: 0	B9	8.00	.00	65	9	23	262 L	245	7.18
759	10.0C	569	238	18: 8:49	-29:35: 1	186445	-0: 2	0: 0	B9	8.00	.00	131	33	36	1560 L	210	7.35
760	30.0C	572	234	18: 8:49	-29:35: 1	186445	0:20	1: 7	B9	8.00	.00	173	93	89	3832	200	7.40
761	10.0C	474	204	18: 8:50	-27:24:46	NO	0:12	-0:22				82	12	42	3527	76	8.46
762	30.0C	480	192	18: 8:50	-27:24:46	NO	-0:12	0:22				138	39	96	12437	55	8.81
763	10.0C	318	134	18: 8:54	-23:50:23	NO*	-0: 9	-0:32				60	4	39	83	43	9.08
764	30.0C	322	129	18: 8:54	-23:50:23	NO*	0: 9	0:32				133	22	94	642	32	9.40
765	3.0L	425	196	18: 8:57	-26:24:34	186449	-0: 2	2: 2	A0	8.50	.00	364	4	337	97 L	240	8.15
766	10.0C	430	184	18: 8:57	-26:24:34	186449	-0: 5	0:34	A0	8.50	.00	65	5	37	125 L	53	8.85
767	30.0C	434	177	18: 8:57	-26:24:34	186449	-0: 1	1:23	A0	8.50	.00	117	29	86	762 L	36	9.27
768	3.0L	325	151	18: 9: 0	-24: 6:49	186451	-0: 7	1:18	B8	9.30	.00	356	4	332	857L		
769	3.0L	325	157	18: 9: 0	-24: 6:49	186451	-0:19	-0:54	B8	9.30	.00	359	9	328	2277	665*	7.04
770	3.0L	560	250	18: 9:11	-29:29:18	186455	-0: 6	0:22	B8	9.00	.00	396	53	345	1947 H	2450	5.62
771	10.0C	563	240	18: 9:11	-29:29:18	186455	-0: 2	0:48	B8	9.00	.00	63	8	36	184	60	8.71
772	30.0C	572	234	18: 9:11	-29:29:18	186455	-0: 2	-0:36	B8	9.00	.00	173	73	89	3000	150	7.71
773	3.0L	553	252	18: 9:15	-29:22: 0	186457	0:16	0:22	A3	8.80	.00	371	5	344	1147	280	7.98
774	10.0C	878	366	18: 9:18	-36:29:34	209851	-0:10	0: 2	B9	8.26	8.03	82	22	40	646 L	110	8.05
775	30.0C	883	359	18: 9:18	-36:29:34	209851	-0:12	0:22	B9	8.26	8.03	129	55	79	27007L	115	8.00
776	10.0C	496	215	18: 9:19	-27:55:43	186458	-0: 7	-1:29	A2	8.70	.00	62	4	38	91 L	45	9.03
777	30.0C	500	209	18: 9:19	-27:55:43	186458	-0: 7	-1:29	A2	8.70	.00	115	24	86	620	30	9.47
778	3.0L	636	280	18: 9:20	-31:13:10	209853	-0: 9	-0: 9	A2	9.35	9.42	371	14	341	3417H	840*	6.78
779	3.0L	638	283	18: 9:20	-31:13:10	209853	0: 3	-3:52	A2	9.35	9.42	362	4	339	897		
780	3.0L	440	204	18: 9:24	-26:44:50	186460	-0:13	1:11	B	9.20	.00	381	33	345	8817	1800*	5.95
781	3.0L	441	207	18: 9:24	-26:44:50	186460	-0: 0	-1:20	B	9.20	.00	370	14	343	3177		
782	30.0C	448	184	18: 9:24	-26:44:50	186460	-0:23	2:36	B	9.20	.00	109	6	85	1347L		
783	30.0C	446	190	18: 9:24	-26:44:50	186460	0:10	1: 6	B	9.20	.00	111	20	84	4697L	40*	9.16
784	3.0L	862	374	18: 9:25	-36:13:41	NO*	-0: 2	-0:31				319	4	295	87	200	8.35
785	10.0C	865	364	18: 9:25	-36:13:41	NO*	0: 0	-1: 4				58	4	36	405	44	9.05
786	30.0C	869	357	18: 9:25	-36:13:41	NO*	0: 2	1:34				100	17	73	405	25	9.67
787	3.0L	455	211	18: 9:30	-27: 9:17	186462	-0:15	3:47	B9	9.20	.00	383	21	343	6497H	1600*	6.08
788	3.0L	456	217	18: 9:30	-27: 9:17	186462	-0: 9	0:22	B9	9.20	.00	376	16	343	3867		
789	10.0C	460	203	18: 9:30	-27: 9:17	186462	-0: 7	0:59	B9	9.20	.00	102	20	42	7627	120	7.96
790	3.0L	271	137	18: 9:31	-22:53:46	186463	0:10	-2:43	A0	9.70	.00	346	4	321	907	220	8.25
791	3.0L	477	248	18: 9:33	-27:37:14	186464	-0:19	-2:23	A2	9.00	.00	371	17	334	364	800	6.84
792	3.0L	536	243	18: 9:34	-28:58:34	186465	-0:19	-2:34	A0	9.20	.00	373	17	349	3337H	630	7.10
793	3.0L	621	279	18: 9:35	-30:57:41	209858	0: 2	2:24	A2	8.65	8.73	367	6	337	1537	340	7.77
794	3.0L	651	292	18: 9:36	-31:35:27	NO	0:10	-0:56				369	7	334	212	425	7.53
795	10.0C	653	280	18: 9:36	-31:35:27	NO	0: 2	0:31				75	12	37	348	77	8.44
796	30.0C	659	270	18: 9:36	-31:35:27	NO	-0:13	0:26				116	35	82	949	44	9.05
797	3.0L	283	142	18: 9:38	-23:12: 8	186469	0: 0	-1:11	A5	9.00	.00	364	21	331	700	975	6.62
798	3.0L	340	169	18: 9:43	-24:29:57	186471?	-0:20	3:54	A0*	9.20	.00	355	4	329	887	220	8.25
799	1.0L	505	231	18: 9:44	-28:17:35	186471?	-0:24	2:54	A0*	9.20	.00	142	21	89	671 H	1392	6.23
800	3.0L	505	232	18: 9:44	-28:17:35	186471?	-0:24	2:54	A0*	9.20	.00	417	83	339	3861 H	4750	4.89

# PAGE, CARRUTHERS, AND HECKATHORN

SAGITTARIUS WEST, R.A. 18:34 DEC. -30:24 (6 FRAMES)

OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAO NO.	A R.A.	A DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	BG	DENSITY VOLUME	CORR. V/E	UV MAG.
801	3.0C	500	225	18: 9:44	-28:17:35	186471	-0:19	4:12	A0*	9.20	.00	117	22	22	1036 H	460	6.49
802	10.0C	508	222	18: 9:44	-28:17:35	186471	-0:16	2:56	A0*	9.20	.00	251	55	39	4153 H	540	6.32
803	30.0C	513	212	18: 9:44	-28:17:35	186471	-0:33	4:24	A0*	9.20	.00	292	124	91	10371 H	890	5.77
804	1.0L	505	231	18: 9:49	-28:19:50	186472	-0:25	6: 9	A0	9.20	.00	417	21	89	671 H	1392	6.23
805	3.0L	505	232	18: 9:49	-28:19:50	186472	-0:28	5: 9	A0	9.20	.00	412	83	339	3861 H	4750	4.89
806	30.0C	513	212	18: 9:49	-28:19:50	186472	-0:38	6:38	A0	9.20	.00	292	124	91	10371 H	890	5.77
807	30.0C	579	245	18: 9:52	-29:48:16	NO						113	8	87	1857	17	10.09
808	3.0L	443	212	18: 9:53	-26:54:11	186473	-0:14	2:43	A0	8.80	.00	388	44	341	13857H	1750	5.98
809	30.0C	452	193	18: 9:53	-26:54:11	186473	-0:15	2: 5	A0	8.80	.00	113	31	85	7087L	35	9.30
810	3.0L	248	132	18: 9:54	-22:28: 0	186474	0:13	-0:10	A0	9.10	.00	344	11	313	2827	510	7.33
811	30.0C	256	108	18: 9:54	-22:28: 0	186474	-0:10	3:32	A0	9.10	.00	150	81	104	23927	130	7.87
812	3.0L	680	302	18: 9:56	-32:24: 8	209862	-0:21	8: 3	88	9.32	9.14	365	9	335	229	1130*	6.46
813	3.0L	686	307	18: 9:56	-32:24: 8	209862	-0: 6	-1:16	88	9.32	9.14	357	5	333	142		
814	3.0L	680	310	18: 9:56	-32:24: 8	209862	-0:18	4:51	88	9.32	9.14	357	6	329	1527		
815	10.0C	684	293	18: 9:56	-32:24: 8	209862	-0:14	6:59	88	9.32	9.14	69	8	43	184 L		
816	10.0C	689	297	18: 9:56	-32:24: 8	209862	-0: 2	-0:42	88	9.32	9.14	100	26	42	878	185*	7.48
817	30.0C	690	284	18: 9:56	-32:24: 8	209862	-0:23	6:27	88	9.32	9.14	122	16	86	449 L		
818	30.0C	694	288	18: 9:56	-32:24: 8	209862	-0:10	-0: 4	88	9.32	9.14	144	103	89	3424	210*	7.35
819	3.0L	549	258	18:10: 8	-29:22: 0	186480	-0:13	3:42	89	9.20	.00	370	6	343	137	320	7.84
820	10.0C	554	248	18:10: 8	-29:22: 0	186480	-0: 0	-0:40	89	9.20	.00	68	7	36	193 L	61	8.70
821	30.0C	559	238	18:10: 8	-29:22: 0	186480	-0:11	1:32	89	9.20	.00	111	24	81	624 L	32	9.40
822	1.0L	457	221	18:10:11	-27:13:45	186481	-0: 4	2:25	89	8.20	.00	124	9	91	238	550	7.25
823	3.0L	456	222	18:10:11	-27:13:45	186481	-0: 6	2:36	89	8.20	.00	419	60	340	1330	1750	5.98
824	3.0C	452	215	18:10:11	-27:13:45	186481	-0: 5	1:31	89	8.20	.00	110	21	23	921 H	485	6.43
825	10.0C	460	212	18:10:11	-27:13:45	186481	-0: 7	0:43	89	8.20	.00	239	49	38	36820H	452	6.51
826	30.0C	464	205	18:10:11	-27:13:45	186481	0: 0	2:42	89	8.20	.00	290	147	88	12000 H	1040	5.60
827	3.0L	363	190	18:10:16	-25: 9:54	186484	0:16	2:28	A2	7.70	.00	355	20	319	5277	780	6.87
828	10.0C	801	346	18:10:17	-34:55: 0	209871	-0: 7	-0:28	88	9.22	8.91	72	7	36	1887L	77	8.44
829	30.0C	806	337	18:10:17	-34:55: 0	209871	-0:21	0:30	88	9.22	8.91	117	50	77	1536	70	8.55
830	3.0L	225	124	18:10:20	-22: 3:15	186487	-0: 5	4:39	A0	9.20	.00	344	27	306	812 H	1810*	5.95
831	3.0L	228	128	18:10:20	-22: 3:15	186487	0: 9	-0:32	A0	9.20	.00	350	24	316	5447H		
832	1.0L	666	303	18:10:21	-31:58:54	209873	-0: 3	-0:33	88	6.64	.00	165	23	91	937	1250	6.35
833	3.0L	665	305	18:10:21	-31:58:54	209873	-0: 3	-0:32	88	6.64	.00	423	61	336	3116	3500	5.23
834	3.0C	660	297	18:10:21	-31:58:54	209873	0: 1	0:48	88	6.64	.00	171	32	22	2034	880	5.78
835	10.0C	668	295	18:10:21	-31:58:54	209873	0: 6	-0:26	88	6.64	.00	344	75	39	7490	1120	5.52
836	30.0C	673	287	18:10:21	-31:58:54	209873	-0: 2	-0:11	88	6.64	.00	342	161	80	17728	1530	5.18
837	3.0L	485	238	18:10:22	-27:43:54	186489	0: 6	0:59	A0	9.30	.00	364	10	331	2797H	520	7.31
838	3.0L	258	137	18:10:23	-22:43:54	186489	-0:16	2:27	82	8.60	.00	375	170	318	3978 H	5500	4.73
839	3.0C	254	130	18:10:23	-22:43:54	186489	-0: 8	1: 3	82	8.60	.00	46	7	22	150 L	205	7.37
840	10.0C	261	127	18:10:23	-22:43:54	186489	-0:12	1:12	82	8.60	.00	98	48	314	1753 L	314	6.91
841	30.0C	265	121	18:10:23	-22:43:54	186489	0: 1	2:13	82	8.60	.00	221	120	104	7266	580	6.24
842	10.0C	926	401	18:10:25	-37:40:52	209876/	0:10	1:57	89	9.70	9.37	77	22	38	6207	110	8.05
843	30.0C	931	394	18:10:25	-37:40:52	209876/	0: 9	3:26	89	9.70	9.37	124	81	76	2613	125	7.91
844	3.0L	557	255	18:10:28	-29:32: 0	186490	-0: 5	1:52	A0	8.60	.00	380	65	338	21427	2700	5.51
845	3.0L	340	178	18:10:29	-24:36:32	1864907	-0:32	-3:58	A0	8.60	.00	358	22	327	5467H		
846	3.0L	342	187	18:10:29	-24:36:32	1864907	-0:32	-3:58	A0	8.60	.00	364	82	317	25317H	3900*	5.11
847	3.0L	317	169	18:10:30	-24: 4:24	186492	0:20	4:23	A0	9.50	.00	360	33	320	9897	1250	6.35
848	30.0C	305	17	18:10:34	-23:42:36	209880	-0:16	1:30	A0	7.14	.00	125	44	91	10997	50	8.91
849	3.0L	960	425	18:10:40	-38:25:37	209880	-0:16	1:30	A0	7.14	.00	296	25	258	696	800	6.84
850	3.0C	956	419	18:10:40	-38:25:37	209880	-0: 9	-1:39	A0	7.14	.00	65	29	20	900	510	6.38

SAGITTARIUS WEST, R.A. 18:34 DEC. -30:24 (6 FRAMES)

OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAO NO.	Δ R.A.	Δ DEC.	SPEC. TYPE	V MAG.	P MAG.	NO. OF POINTS	BG	DENSITY VOLUME	CORR. V/E	UV MAG.	
851	10.0C	964	416	18:10:40	-38:25:37	209880	-0: 4	-1: 4	A0	7.14	.00	184	81	36	5096	740	5.97
852	30.0C	968	410	18:10:40	-38:25:37	209880	0: 1	-0: 4	A0	7.14	.00	228	135	82	10034	800	5.89
853	3.0L	888	396	18:10:41	-36:53:13	209883	-0:14	0:26	B5	8.36	8.00	339	30	283	1111	1220	6.38
854	3.0C	883	389	18:10:41	-36:53:13	209883	-0:16	0:37	B5	8.36	8.00	59	18	22	501 L	335	6.84
855	10.0C	891	386	18:10:41	-36:53:13	209883	-0:11	0: 5	B5	8.36	8.00	154	80	35	45180	565	6.27
856	30.0C	895	381	18:10:41	-36:53:13	209883	0: 0	0:29	B5	8.36	8.00	227	165	82	10420	830	5.85
857	1.0L	769	347	18:10:43	-34:18:15	209885	-0:12	-1: 0	B8	7.85	7.37	116	9	88	219 L	545	7.26
858	3.0L	760	349	18:10:43	-34:18:15	209885	-0: 7	-2:18	B8	7.85	7.37	383	37	314	1455	1650	6.05
859	3.0C	764	341	18:10:43	-34:18:15	209885	-0: 8	-2:18	B8	7.85	7.37	86	19	23	715	405	6.63
860	10.0C	772	338	18:10:43	-34:18:15	209885	-0:11	-1:24	B8	7.85	7.37	216	43	41	3171	390	6.67
861	30.0C	777	329	18:10:43	-34:18:15	209885	-0:24	0:13	B8	7.85	7.37	236	74	84	6576	430	6.56
862	10.0C	926	401	18:10:44	-37:38:10	209886	-0: 9	0:45	A0	7.70	7.42	77	22	38	6202 L	110	8.05
863	30.0C	931	394	18:10:44	-37:38:10	209886	-0: 9	0:44	A0	7.70	7.42	124	81	76	2613 L	125	7.91
864	3.0L	595	280	18:10:45	-30:26: 9	209887	-0:13	1:21	A2	9.22	9.08	367	5	337	116?	975*	6.62
865	3.0L	595	287	18:10:45	-30:26: 9	209887	0:20	-1:22	A2	9.22	9.08	368	14	333	433?H	675	7.02
866	3.0L	720	330	18:10:46	-33:14:56	209888	-0: 6	-0:18	B9	8.21	7.82	364	16	329	400	220	7.30
867	3.0C	716	322	18:10:46	-33:14:56	209888	-0:12	0:51	B9	8.21	7.82	60	7	24	200 L	255	7.13
868	10.0C	724	320	18:10:46	-33:14:56	209888	-0: 6	-2: 3	B9	8.21	7.82	134	19	35	11120	255	7.13
869	30.0C	730	309	18:10:46	-33:14:56	209888	-0:27	-1:40	B9	8.21	7.82	167	24	85	1106 L	1380*	5.29
870	30.0C	722	315	18:10:46	-33:14:56	209888	0:18	3:46	B9	8.21	7.82	347	157?	79	15900?H	147?	5.29
871	3.0L	732	177	18:10:50	-24:25:32	186499	-0:15	0:38	A0	9.30	.00	345	5	310	147?	820*	6.81
872	3.0L	333	180	18:10:50	-24:25:32	186499	0: 4	1:39	A0	9.30	.00	358	10	322	293?H	820*	6.81
873	3.0L	352	198	18:10:58	-25: 2:58	186503?	0:27	1:45	B9	9.20	.00	362	4	339?	86?L	220	8.25
874	1.0L	466	235	18:11: 1	-27:31: 4	186505	-0: 7	2:11	B9	7.50	.00	142	17	88	597 H	890	6.72
875	3.0L	466	236	18:11: 1	-27:31: 4	186505	-0:11	1:12	B9	7.50	.00	405	44	342	1685 H	2100	5.78
876	3.0C	461	229	18:11: 1	-27:31: 4	186505	-0: 3	0:51	B9	7.50	.00	143	23	23	1267 H	590	6.22
877	10.0C	469	226	18:11: 1	-27:31: 4	186505	-0:3	1:14	B9	7.50	.00	286	51	41	4605 H	605	6.19
878	30.0C	474	217	18:11: 1	-27:31: 4	186505	-0:10	1:46	B9	7.50	.00	312	122	91	11671	1040	5.60
879	1.0L	371	195	18:11: 2	-25:19:33	186506	-0:10	1: 5	B5	8.50	.00	112	8	85	186 L	1006	6.59
880	3.0L	370	197	18:11: 2	-25:19:33	186506	-0:12	1:16	B5	8.50	.00	402	63	333	1985 H	2500	5.59
881	3.0C	366	189	18:11: 2	-25:19:33	186506	-0:11	0: 8	B5	8.50	.00	81	19	22	706	410	6.62
882	10.0C	373	187	18:11: 2	-25:19:33	186506	-0: 6	1:15	B5	8.50	.00	196	47	37	3158	400	6.64
883	30.0C	378	179	18:11: 2	-25:19:33	186506	-0: 7	1:20	B5	8.50	.00	273	112	91	9292	750	5.96
884	3.0L	689	321	18:11: 7	-32:33:22	209895	-0:12	-1:29	A0	8.94	8.65	353	6	327	136?	670*	7.03
885	3.0L	689	325	18:11: 7	-32:33:22	209895	0:11	-3:19	A0	8.94	8.65	352	7	323	171?	670*	7.03
886	3.0L	410	223	18:11:21	-26:12:53	186510	0:17	-4:23	A5	8.60	.00	367	95	329	2073?H	2700	5.51
887	10.0C	556	264	18:11:22	-29:33:37	186511	0: 2	1:50	A0	9.30	.00	72	9	38	250	67	8.59
888	30.0C	561	256	18:11:22	-29:33:37	186511	0: 0	1:58	A0	9.30	.00	124	44	84	1203	53	8.85
889	1.0L	523	261	18:11:23	-28:51:16	186512	-0: 3	2:13	B8	8.00	.00	130	9	91	267 L	570	7.21
890	3.0L	522	263	18:11:23	-28:51:16	186512	0: 1	1:57	B8	8.00	.00	411	33	340	1458	1750	5.98
891	3.0C	518	255	18:11:23	-28:51:16	186512	-0: 4	1:21	B8	8.00	.00	97	16	26	582 L	350	6.79
892	10.0C	526	252	18:11:23	-28:51:16	186512	-0: 1	0: 7	B8	8.00	.00	196	65	51	2964	395	6.66
893	30.0C	529	248	18:11:23	-28:51:16	186512	0:18	1:14	B8	8.00	.00	252	106	100	6694	495	6.41
894	10.0C	556	264	18:11:24	-29:33: 5	186513	-0: 0	1:19	A0	9.10	.00	72	9	38	250	67	8.59
895	30.0C	561	256	18:11:24	-29:33: 5	186513	-0: 2	1:26	A0	9.10	.00	124	44	84	1203	53	8.85
896	1.0L	714	334	18:11:25	-33: 9:23	209900	-0: 2	0: 8	82	8.30	7.89	169	28	89	1219 H	1992	5.84
897	3.0L	713	335	18:11:25	-33: 9:23	209900	-0: 2	0: 3	82	8.30	7.89	424	63	324	3356 H	4596	4.93
898	3.0C	717	328	18:11:25	-33: 9:23	209900	0: 3	-0:21	82	8.30	7.89	62	8	26	231	1390	5.28
899	3.0C	709	327	18:11:25	-33: 9:23	209900	-0: 9	-0:31	82	8.30	7.89	182	32	23	2076 H	910	5.75
900	10.0C	717	324	18:11:25	-33: 9:23	209900	-0: 9	-1:15	82	8.30	7.89	345	94	39	8548 H	1320	5.34



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OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAO NO.	Δ R.A.	Δ DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	BG	DENSITY VOLUME	CORR. V/E	UV MAG
901	30.0C	719	321	18:11:25	-33:9:23	209900	0:18	0:38	82	8:30	7:89	362	135	79	16440 H	1380	5:29
902	3.0L	502	254	18:11:27	-28:22:37	186514	-0:11	0:50	88	9:00	.00	377	29	343	657 H	1020	6:57
903	3.0C	497	248	18:11:27	-28:22:37	186514	-0:1	1:41	88	9:00	.00	57	7	24	178	210	7:35
904	10.0C	505	245	18:11:27	-28:22:37	186514	-0:3	0:54	88	9:00	.00	123	20	45	929	130	7:87
905	30.0C	509	238	18:11:27	-28:22:37	186514	0:3	1:44	88	9:00	.00	171	56	95	2710	130	7:87
906	3.0L	284	164	18:11:29	-23:24:18	186516	-0:16	0:1	88	9:10	.00	341	7	314	1697L		
907	3.0L	281	158	18:11:29	-23:24:18	186516	0:10	1:45	88	9:10	.00	344	11	310	308?	870*	6:75
908	3.0L	214	134	18:11:35	-21:50:8	NO*	-0:10	-1:13				345	6	313	173	350	7:74
909	10.0C	216	125	18:11:35	-21:50:8	NO*	0:3	-0:35				59	6	36	133	56	8:79
910	30.0C	220	118	18:11:35	-21:50:8	NO*	0:6	1:47				138	21	96	624	29	9:51
911	3.0L	269	161	18:11:36	-23:7:58	186522/	-0:4	1:57	A0	9:50	.00	339	11	306	2932H	500	7:35
912	1.0L	260	157	18:11:37	-22:49:49	NO*	0:3	-2:51				112	5	81	125	445	7:48
913	3.0C	633	308	18:11:38	-31:24:1	209904	0:4	0:45	88	8:69	8:26	366	12	335	284 L	540	7:27
914	3.0C	629	300	18:11:38	-31:24:1	209904	-0:1	0:28	88	8:69	8:26	53	6	22	147 L	200	7:40
915	10.0C	637	297	18:11:38	-31:24:1	209904	-0:1	0:36	88	8:69	8:26	101	22	36	838 L	130	7:87
916	30.0C	641	291	18:11:38	-31:24:1	209904	0:10	1:1	88	8:69	8:26	144	53	84	2145 L	110	8:05
917	3.0L	255	155	18:11:39	-22:49:49	NO*	0:0	4:21				347	16	318	400	640	7:08
918	3.0L	649	319	18:11:40	-31:45:30	209906?	0:30	-1:31	A0	9:66	9:58	379	23	332	696 H	990	6:60
919	10.0C	652	309	18:11:40	-31:45:30	209906?	0:31	-2:7	A0	9:66	9:58	91	18	36	664 H	110	8:05
920	30.0C	656	302	18:11:40	-31:45:30	209906?	0:31	-0:47	A0	9:66	9:58	136	55	78	2129 H	105	8:10
921	3.0L	508	258	18:11:42	-28:28:48	186524	-0:17	-1:50	89	9:20	.00	376	15	331	534 H	770	6:88
922	10.0C	511	248	18:11:42	-28:28:48	186524	-0:14	-1:19	89	9:20	.00	80	11	53	208 L	61	8:70
923	30.0C	516	239	18:11:42	-28:28:48	186524?	-0:22	-0:46	89	9:20	.00	131	38	93	1132	50	8:91
924	3.0L	269	161	18:11:45	-23:4:0	186526/	-0:13	-2:1	A5	9:00	.00	339	11	306	2932H	500	7:35
925	10.0C	949	424	18:11:55	-38:13:32	NO*	0:0	-0:44				64	15	33	397	86	8:32
926	30.0C	953	417	18:11:55	-38:13:32	NO*	0:0	0:43				109	64	71	1854	88	8:30
927	3.0L	308	183	18:12:1	-24:0:51	186534	-0:10	1:17	88	8:38	.00	356	53	311	1728 H	2700*	5:51
928	3.0L	306	187	18:12:1	-24:0:51	186534/	0:13	0:43	88	8:38	.00	345	16	307	482?		
929	10.0C	311	172	18:12:1	-24:0:51	186534	-0:10	0:32	88	8:38	.00	71	18	36	494 L	95	8:21
930	30.0C	317	162	18:12:1	-24:0:51	186534	-0:20	1:27	88	8:38	.00	135	64	84	2258 L	115	8:00
931	3.0L	239	151	18:12:4	-22:27:43	186539	-0:12	1:4	85	9:00	.00	382	116	304	4377 H	6600*	4:54
932	3.0L	236	155	18:12:4	-22:27:43	186539	0:7	2:6	85	9:00	.00	350	28	305	849?		
933	3.0C	234	143	18:12:4	-22:27:43	186539	-0:13	1:24	85	9:00	.00	59	23	22	625 L	390	6:67
934	10.0C	242	141	18:12:4	-22:27:43	186539	-0:13	0:16	85	9:00	.00	135	70	37	34540	550	6:30
935	30.0C	246	134	18:12:4	-22:27:43	186539	-0:5	2:13	85	9:00	.00	277	266	94	17861 H	1790	5:01
936	3.0L	370	213	18:12:6	-25:26:12	209916	-0:7	-0:36	88	6:85	.00	359	10	325	280	510	7:33
937	1.0L	777	366	18:12:7	-34:36:40	209916	-0:9	-1:35	88	6:85	.00	130	14	89	429	700	6:98
938	3.0L	777	367	18:12:7	-34:36:40	209916	-0:8	-1:35	88	6:85	.00	396	38	312	1843	2000	5:84
939	3.0C	772	360	18:12:7	-34:36:40	209916	-0:7	-2:8	88	6:85	.00	130	29	21	1529	710	6:02
940	10.0C	780	357	18:12:7	-34:36:40	209916	-0:7	-2:8	88	6:85	.00	317	67	37	6357	910	5:75
941	30.0C	785	348	18:12:7	-34:36:40	209916	-0:19	0:1	88	6:85	.00	317	121	81	13442	1110	5:53
942	3.0L	307	191	18:12:17	-23:58:37	186545	0:11	-3:59	A0	9:20	.00	344	9	313	194?		
943	3.0L	306	187	18:12:18	-23:58:37	186545/	-0:3	-1:32	A0	9:20	.00	345	16	307	4827H	1050*	6:54
944	3.0L	250	166	18:12:21	-22:45:22	186547	0:13	-0:46	89	8:80	.00	337	16	306	375?	600	7:15
945	1.0L	708	342	18:12:23	-33:6:29	209919	-0:3	0:22	89	6:87	.00	113	6	87	144 L	455	7:45
946	3.0L	708	343	18:12:23	-33:6:29	209919	-0:5	-0:37	89	6:87	.00	395	34	323	1361	1550	6:12
947	3.0C	703	336	18:12:23	-33:6:29	209919	-0:4	-0:28	89	6:87	.00	90	17	21	682 L	395	6:66
948	10.0C	711	333	18:12:23	-33:6:29	209919	-0:4	-1:11	89	6:87	.00	221	58	79	3587	445	6:53
949	30.0C	714	329	18:12:23	-33:6:29	209919	0:13	-0:15	89	6:87	.00	245	64?	79	4752?L	265	7:09
950	1.0L	867	406	18:12:25	-16:35:27	209922	-0:11	0:37	83	7:00	.00	195	62	83	3180 H	4600	4:93

## SAGITTARIUS WEST, R.A. 18:34 DEC. -30:24 (6 FRAMES)

OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	S.A.O. NO.	Δ R.A.	Δ DEC.	SPEC. V. TYPE	P. MAG.	PEAK DEN.	NO. OF POINTS	B.G.	DENSITY VOLUME	CORR. V/E	UV MAG.
951	3.0L	866	407	18:12:25	-36:35:27	209922	-0:11	0:48	B3	7.00	.00	434	283	8832 H	13000	3.80
952	.5C	870	400	18:12:25	-36:35:27	209922	-0:11	0:27	B3	7.00	.00	78	25	817	2750	4.54
953	3.0C	862	399	18:12:25	-36:35:27	209922	-0:11	0:18	B3	7.00	.00	245	22	5683 H	2650	4.58
954	10.0C	870	397	18:12:25	-36:35:27	209922	-0:11	0:53	B3	7.00	.00	410	158	18503 H	3300	4.34
955	30.0C	875	389	18:12:25	-36:35:27	209922	-0:17	1:2	B3	7.00	.00	385	76	39148	3400	4.31
956	3.0L	266	170	18:12:26	-23:8:2	186548	-0:9	2:3	B5	8.70	.00	342	17	439?	660	7.05
957	30.0C	274	154	18:12:26	-23:8:2	186548	-0:9	1:39	B5	8.70	.00	117	13	298?	20	9.91
958	10.0C	826	379	18:12:27	-35:39:16	209923	-0:9	0:7	A0	7.40	7.21	60	5	112 L	51	8.89
959	30.0C	831	371	18:12:27	-35:39:16	209923	-0:18	0:51	A0	7.40	7.21	99	21	485 L	27	9.58
960	10.0C	878	401	18:12:28	-36:46:54	209924	-0:5	0:39	B8	8.25	7.96	76	29	870	140	7.79
961	30.0C	883	393	18:12:28	-36:46:54	209924	-0:13	1:28	B8	8.25	7.96	128	89	3332	160	7.64
962	3.0L	485	261	18:12:29	-28:5:48	186549	-0:7	1:19	B8	8.50	.00	393	56	1522 H	1900	5.89
963	3.0C	480	254	18:12:29	-28:5:48	186549	-0:4	1:25	B8	8.50	.00	71	10	330	260	7.11
964	10.0C	488	251	18:12:29	-28:5:48	186549	-0:4	1:50	B8	8.50	.00	151	46	2223	305	6.94
965	30.0C	492	245	18:12:29	-28:5:48	186549	-0:7	2:13	B8	8.50	.00	220	106	6581	310	6.92
966	3.0L	409	235	18:12:32	-26:20:40	186550	-0:3	2:27	A5	8.50	.00	356	10	306?	530	7.29
967	1.0L	531	281	18:12:45	-29:10:21	186556	-0:2	2:57	B8	8.60	.00	112	12	268	1474	6.17
968	3.0L	528	283	18:12:45	-29:10:21	186556	-0:5	4:19	B8	8.60	.00	398	105	3850 H	4900	4.86
969	3.0C	523	277	18:12:45	-29:10:21	186556	-0:13	3:60	B8	8.60	.00	66	19	574	365	6.74
970	10.0C	531	274	18:12:45	-29:10:21	186556	-0:18	3:58	B8	8.60	.00	143	51	2846	360	6.76
971	30.0C	537	265	18:12:45	-29:10:21	186556	-0:4	3:47	B8	8.60	.00	214	117	7950	560	6.28
972	30.0C	336	186	18:12:49	-24:31:48	NO	-0:19	1:35	B8	9.30	.00	115	39	994?	45	9.03
973	3.0L	369	218	18:12:52	-25:28:38	186559	-0:10	-3:15	B8	9.30	.00	361	16	450	1670	6.03
974	3.0L	372	221	18:12:52	-25:28:38	186559	-0:10	-3:15	B8	9.30	.00	346	5	110		
975	3.0L	371	225	18:12:52	-25:28:38	186559	-0:13	-4:32	B8	9.30	.00	81	18	579	100	8.16
976	10.0C	374	215	18:12:52	-25:28:38	186559	-0:26	1:22	B8	9.30	.00	114	17	436?		
977	30.0C	378	199	18:12:52	-25:28:38	186559	-0:13	-3:17	B8	9.30	.00	141	100	3424	195	7.43
978	30.0C	379	207	18:12:52	-25:28:38	186559	-0:5	0:27	B5	7.60	.00	122	8	209	549	7.25
979	1.0L	620	315	18:12:55	-31:10:36	209933	-0:6	0:39	B5	7.60	.00	396	28	1053 L	1847	5.92
980	3.0L	619	316	18:12:55	-31:10:36	209933	-0:4	0:47	B5	7.60	.00	100	18	737 L	415	6.60
981	3.0C	614	309	18:12:55	-31:10:36	209933	-0:1	-0:24	B5	7.60	.00	216	49	3182 L	400	6.64
982	10.0C	622	307	18:12:55	-31:10:36	209933	-0:19	0:44	B5	7.60	.00	249	125	9542 L	710	6.02
983	30.0C	625	302	18:12:55	-31:10:36	209933	-0:15	-0:30	B5	8.96	8.67	273	8	212 L	330	7.80
984	3.0L	975	460	18:12:56	-38:56:17	209934	-0:4	-1:13	B5	8.96	8.67	62	18	421 L	87	8.31
985	10.0C	979	447	18:12:56	-38:56:17	209934	-0:5	-0:28	B5	8.96	8.67	109	53	1408 L	63	8.66
986	30.0C	984	439	18:12:56	-38:56:17	209934	-0:7	-2:3	A2	8.82	8.74	293	15	503?H	575	7.20
987	3.0L	964	454	18:12:57	-38:41:0	209935	-0:4	1:56	B9	9.40	.00	356	53	1037?H	1400	6.23
988	3.0L	378	228	18:12:59	-25:43:28	186561	-0:20	1:52	B9	9.40	.00	114	15	321?L		
989	30.0C	388	205	18:12:59	-25:43:28	186561	-0:9	-5:44	B9	9.40	.00	114	15	321?L		
990	30.0C	393	209	18:12:59	-25:43:28	186561	-0:21	-1:37	B9	9.40	.00	120	54	926?	87	8.31
991	30.0C	387	214	18:12:59	-25:43:28	186561	-0:16	-0:43	B8	9.00	.00	112	12	268	1474	6.17
992	30.0C	288	167	18:13:1	-23:28:58	NO	-0:12	1:39	B8	9.00	.00	398	105	3850 H	4900	4.86
993	1.0L	531	281	18:13:3	-29:7:41	186562	-0:5	1:19	B8	9.00	.00	66	19	574	365	6.74
994	3.0L	528	283	18:13:3	-29:7:41	186562	-0:1	1:18	B8	9.00	.00	143	51	2846	360	6.76
995	3.0C	523	277	18:13:3	-29:7:41	186562	-0:14	1:7	B8	9.00	.00	353	63	7950	560	6.28
996	10.0C	531	274	18:13:3	-29:7:41	186562	-0:2	2:2	B3	8.87	8.54	118	6	144 L	450	7.47
997	30.0C	537	265	18:13:3	-29:7:41	186562	-0:0	0:37	B3	8.87	8.54	392	23	866 L	1130	6.46
998	3.0L	296	194	18:13:5	-23:51:5	209938	-0:2	2:2	B3	8.87	8.54	118	6	144 L	450	7.47
999	1.0L	573	300	18:13:6	-30:8:33	209938	-0:0	0:37	B3	8.87	8.54	392	23	866 L	1130	6.46
1000	3.0L	573	302	18:13:6	-30:8:33	209938	-0:0	0:37	B3	8.87	8.54	392	23	866 L	1130	6.46

PAGE, CARRUTHERS, AND HECKATHORN

SAGITTARIUS WEST, R.A. 18:34 DEC. -30:24 16 FRAMES

OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	S.A.O. NO.	Δ R.A.	Δ DEC.	SPEC. TYPE	V. MAG.	P. MAG.	PEAK DEN.	NO. OF POINTS	B.G.	DENSITY VOLUME	CORR. V/E	UV MAG.
1001	3.0C	568	294	18:13:6	-30:8:33	209338	-0:3	1:12	B3	8.87	8.54	79	11	25	389 L	275	7.05
1002	10.0C	575	291	18:13:6	-30:8:33	209338	0:1	0:0	B3	8.87	8.54	166	31	43	1862 L	235	7.22
1003	30.0C	579	286	18:13:6	-30:8:33	209338	0:14	1:35	B3	8.87	8.54	208	87	88	4500 L	255	7.13
1004	30.0C	393	209	18:13:9	-25:52:51	186564	-0:21	3:40	A0	9.20	.00	114	15	83	3722 L		
1005	30.0C	387	214	18:13:9	-25:52:51	186564	0:10	7:47	A0	9.20	.00	120	54	94	9267	65*	8.63
1006	3.0L	371	225	18:13:12	-25:34:0	186565	-0:12	1:59	B8	8.80	.00	364	15	325	450	705	8.98
1007	10.0C	374	215	18:13:12	-25:34:0	186565	-0:7	0:50	B8	8.80	.00	81	18	37	579 L	100	8.16
1008	30.0C	379	207	18:13:12	-25:34:0	186565	-0:7	2:5	B8	8.80	.00	141	100	82	3424	175	7.55
1009	3.0L	451	256	18:13:14	-27:25:53	186566	-0:15	4:1	B9	8.30	.00	355	4	329	95	235	8.17
1010	3.0L	445	258	18:13:17	-27:14:18	186567	0:6	-1:23	B8	9.20	.00	353	18	319	4987 H	740	6.92
1011	30.0C	451	238	18:13:17	-27:14:18	186567	0:0	2:26	B8	9.20	.00	105	4	80	917 L	12	10.47
1012	1.0L	585	307	18:13:18	-30:25:22	209941	0:3	-0:51	B8	7.69	7.28	107	0	89	0	309	7.88
1013	3.0L	583	308	18:13:18	-30:25:22	209941	-0:1	1:48	B8	7.69	7.28	391	27	331	825	1898	5.89
1014	3.0C	579	300	18:13:18	-30:25:22	209941	-0:5	2:23	B8	7.69	7.28	69	11	24	335 L	270	7.07
1015	10.0C	587	298	18:13:18	-30:25:22	209941	0:5	0:45	B8	7.69	7.28	160	31	39	1720 L	220	7.30
1016	30.0C	592	289	18:13:18	-30:25:22	209941	-0:8	1:46	B8	7.69	7.28	198	71	89	4284 L	240	7.20
1017	3.0L	539	219	18:13:21	-29:46:31	186571	0:8	3:36	B8	9.20	.00	348	25	295	8597 H	1050	6.54
1018	1.0L	559	301	18:13:27	-29:46:31	186572	0:10	-3:57	A2	8.80	.00	134	10	90	322 M	610	7.13
1019	3.0L	558	302	18:13:27	-29:46:31	186572	0:9	-3:44	A2	8.80	.00	395	25	332	827 M	1100	6.49
1020	3.0C	554	295	18:13:27	-29:46:31	186572	0:9	-4:48	A2	8.80	.00	105	20	23	830 M	450	6.52
1021	10.0C	558	289	18:13:27	-29:46:31	186572	-0:0	0:31	A2	8.80	.00	98	25	35	10400	150	7.71
1022	30.0C	564	277	18:13:27	-29:46:31	186572	-0:26	1:13	A2	8.80	.00	134	14	81	4642 L		
1023	30.0C	565	287	18:13:27	-29:46:31	186572	0:21	-3:57	A2	8.80	.00	279	172	82	12795 M	1100*	5.54
1024	1.0L	559	301	18:13:36	-29:52:38	186576	0:2	2:10	B8	9.00	.00	134	10	90	322 M	610	7.13
1025	3.0L	558	302	18:13:36	-29:52:38	186576	0:0	2:23	B8	9.00	.00	395	25	332	827 M	1100	6.49
1026	3.0C	554	295	18:13:36	-29:52:38	186576	0:1	1:20	B8	9.00	.00	105	20	23	830 M	450	6.52
1027	10.0C	562	292	18:13:36	-29:52:38	186576	-0:1	0:35	B8	9.00	.00	223	52	35	38300 H	470	6.47
1028	30.0C	565	287	18:13:36	-29:52:38	186576	0:12	2:10	B8	9.00	.00	279	172	82	12795 M	1100	5.54
1029	10.0C	938	439	18:13:45	-38:8:49	209948	-0:5	-0:15	B9	9.24	8.83	58	10	33	225 L	69	8.56
1030	3.0L	941	434	18:13:45	-38:8:49	209948	0:8	1:26	B9	9.24	8.83	101	41	68	1135 L	53	8.85
1031	3.0L	257	188	18:13:46	-22:59:48	186579	0:14	-4:10	B8	9.40	.00	323	9	299	1872	370	7.68
1032	3.0L	353	224	18:13:48	-25:10:30	186581	-0:17	-0:1	A0	9.20	.00	371	7	318	214	410	7.57
1033	1.0L	200	166	18:13:52	-21:47:54	NO?	0:36	-1:49				109	10	76	2697	600	7.15
1034	3.0L	204	156	18:13:52	-21:47:54	NO?	-0:30	-1:34				328	36	293	8872	1100	6.49
1035	30.0C	207	140	18:13:52	-21:47:54	NO	-0:6	3:23				109	10	84	2227	19	9.97
1036	1.0L	695	355	18:13:59	-32:57:28	209952	-0:7	0:0	B8	8.32	7.90	117	7	88	172	475	7.41
1037	3.0L	694	356	18:13:59	-32:57:28	209952	-0:7	0:13	B8	8.32	7.90	392	31	314	1360 M	1500	6.15
1038	3.0C	690	349	18:13:59	-32:57:28	209952	-0:8	-0:50	B8	8.32	7.90	80	15	21	536	335	6.84
1039	10.0C	698	346	18:13:59	-32:57:28	209952	-0:8	1:32	B8	8.32	7.90	180	28	38	1973	250	7.16
1040	30.0C	702	338	18:13:59	-32:57:28	209952	-0:6	1:2	B8	8.32	7.90	219	92	79	6867	450	6.52
1041	1.0L	621	329	18:14:0	-31:18:58	209953	0:5	1:20	B8	7.37	.00	118	9	89	218 L	525	7.30
1042	3.0L	620	329	18:14:0	-31:18:58	209953	-0:2	2:0	B8	7.37	.00	388	31	328	1040	1350	6.27
1043	3.0C	616	322	18:14:0	-31:18:58	209953	0:2	0:58	B8	7.37	.00	105	18	21	788	440	6.54
1044	10.0C	624	320	18:14:0	-31:18:58	209953	0:3	-0:12	B8	7.37	.00	218	65	36	3815	520	6.36
1045	30.0C	629	310	18:14:0	-31:18:58	209953	-0:16	1:15	B8	7.37	.00	257	139	76	10788	830	5.85
1046	3.0L	260	192	18:14:2	-23:13:54	186586	0:12	4:45	A0	9.30	.00	335	45	295	1717 H	930	6.67
1047	30.0C	273	178	18:14:2	-23:13:54	186586	-0:18	-1:52	A0	9.30	.00	289	226	88	16969 H	1600	5.13
1048	10.0C	816	393	18:14:3	-35:34:34	209954	-0:4	-0:4	B9	9.39	9.04	75	15	36	451	87	8.31
1049	30.0C	820	388	18:14:3	-35:34:34	209954	0:7	0:8	B9	9.39	9.04	123	58	75	1862	89	8.28
1050	3.0L	298	203	18:14:4	-23:59:43	186587	-0:16	2:25	B9	9.20	.00	333	4	305	1027		

## SAGITTARIUS WEST, R.A. 18:34 DEC. -30:24 (6 FRAMES)

OBJECT NO.	EXP. FILTER	X	Y	R.A.	DEC.	SAO NO.	A R.A.	A DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	BG	DENSITY VOLUME	CORR. V/E	UV MAG.
1051	3.0L	298	209	18:14:4	-23:59:43	186587	0: 8	-0:54	B9	9.20	.00	336	8	301	209?	610*	7.13
1052	3.0L	506	293	18:14:14	-28:40:16	186594	0:10	-3:50	A3	6.04	.00	350	5	322	128?	290	7.94
1053	1.0L	747	378	18:14:17	-34: 7:35	209959/	-0:11	-0:46	B5	6.10	.00	343	62	89	5494	10300	4.05
1054	3.0L	746	379	18:14:17	-34: 7:35	209959/	-0:11	-0:33	B5	6.10	.00	442	130	310	8923	13800	3.73
1055	.5C	750	372	18:14:17	-34: 7:35	209959/	-0: 3	-1:19	B5	6.10	.00	172	33	26	1980	5150	3.86
1056	3.0C	741	372	18:14:17	-34: 7:35	209959/	-0: 4	-0:53	B5	6.10	.00	362	84	26	7965	3750	4.20
1057	10.0C	749	369	18:14:17	-34: 7:35	209959/	-0: 4	-1:32	B5	6.10	.00	416	182	42	21346	4100	4.10
1058	30.0C	753	362	18:14:17	-34: 7:35	209959/	-0: 4	-0: 9	B5	6.10	.00	398	336	85	40192	3750	4.20
1059	10.0C	774	186	18:14:21	-23:24:26	186597	-0:12	-0:18	B8	9.40	.00	77	19	37	579	100	8.16
1060	1.0L	747	378	18:14:22	-34: 6:24	209961	-0:16	-1:57	A0	8.70	8.26	343	62	89	5494	10300	4.05
1061	3.0L	746	379	18:14:22	-34: 6:24	209961	-0:16	-1:44	A0	8.70	8.26	442	130	310	8923	13800	3.73
1062	.5C	750	372	18:14:22	-34: 6:24	209961	-0: 8	-2:30	A0	8.70	8.26	172	33	26	1980	5150	3.86
1063	3.0C	741	372	18:14:22	-34: 6:24	209961	-0: 9	-2: 4	A0	8.70	8.26	362	84	26	7965	3750	4.20
1064	10.0C	749	369	18:14:22	-34: 6:24	209961	-0: 9	-2:44	A0	8.70	8.26	416	182	42	21346	4100	4.10
1065	30.0C	753	362	18:14:22	-34: 6:24	209961	-0: 9	-1:20	A0	8.70	8.26	398	336	85	40192	3750	4.20
1066	1.0L	469	278	18:14:26	-27:53: 5	186598/	0: 3	0:52	B9	8.20	.00	115	7	87	162	600	7.15
1067	3.0L	469	279	18:14:26	-27:53: 5	186598/	-0: 6	0:22	B9	8.20	.00	385	32	325	1303	1715	6.01
1068	3.0C	464	272	18:14:26	-27:53: 5	186598/	0: 2	0: 0	B9	8.20	.00	87	18	21	699	400	6.64
1069	10.0C	472	269	18:14:26	-27:53: 5	186598/	-0: 0	-0:43	B9	8.20	.00	189	55	38	3227	415	6.60
1070	30.0C	476	260	18:14:26	-27:53: 5	186598/	-0: 5	-0:59	B9	8.20	.00	238	131	83	8910	675	6.07
1071	3.0L	482	283	18:14:27	-28: 7:10	186599	-0: 9	-4:15	A0	8.60	.00	359	17	329	406?		
1072	3.0L	475	285	18:14:27	-28: 7:10	186599	0:14	-3:34	A0	8.60	.00	356	14	327	340?	2100*	5.78
1073	3.0L	481	288	18:14:27	-28:17:10	186599	0:10	-4:50	A0	8.60	.00	357	21	326	502?		
1074	1.0L	522	297	18:14:29	-29:10	M2-36	-0: 6	5:27	PLAN	13.0	.00	97	9	91	28	28	10.49
1075	3.0L	521	298	18:14:29	-29:10	M2-36	-0:10	4:54	PLAN	13.0	.00	364	9	329	202	150	8.66
1076	3.0C	516	291	18:14:29	-29:10	M2-36	-0: 4	6:10	PLAN	13.0	.00	45	9	31	69	23	9.76
1077	10.0C	524	288	18:14:29	-29:10	M2-36	-0: 4	4:56	PLAN	13.0	.00	88	13	38	458	63	8.66
1078	30.0C	529	278	18:14:29	-29:10	M2-36	-0:17	-5:24	PLAN	13.0	.00	134	55	82	1941	85	8.33
1079	3.0L	570	317	18:14:30	-30:12:33	209964	-0: 4	0:44	B9	9.52	9.33	371	11	325	389	620	7.12
1080	3.0C	565	309	18:14:30	-30:12:33	209964	-0: 2	0:52	B9	9.52	9.33	51	4	21	98	170	7.58
1081	10.0C	573	306	18:14:30	-30:12:33	209964	-0: 3	0: 8	B9	9.52	9.33	104	24	36	923	140	7.79
1082	30.0C	577	300	18:14:30	-30:12:33	209964	0: 3	1:53	B9	9.52	9.33	148	55	82	2850	135	7.83
1083	1.0L	469	278	18:14:31	-27:55: 2	186601/	-0: 3	2:49	B9	8.60	.00	115	7	87	162	600	7.15
1084	3.0L	469	279	18:14:31	-27:55: 2	186601/	-0:12	2:19	B9	8.60	.00	385	32	325	1303	1715	6.01
1085	3.0C	464	272	18:14:31	-27:55: 2	186601/	-0: 4	1:57	B9	8.60	.00	87	18	21	699	400	6.64
1086	10.0C	472	269	18:14:31	-27:55: 2	186601/	-0: 6	1:14	B9	8.60	.00	189	55	38	3227	415	6.60
1087	30.0C	476	260	18:14:31	-27:55: 2	186601/	-0:11	2:56	B9	8.60	.00	238	131	83	8910	675	6.07
1088	3.0L	277	205	18:14:34	-23:36:34	186602	0: 3	1:45	A0	8.70	.00	343	38	297	1261?	1400	6.23
1089	30.0C	286	190	18:14:34	-23:36:34	186602/	0:16	-0:11	A0	8.70	.00	115	13	89	297?	20	9.91
1090	1.0L	714	368	18:14:35	-33:24:56	209966	-0: 8	-0:41	B8	7.02	.00	129	11	88	352	893	6.72
1091	3.0L	712	370	18:14:35	-33:24:56	209966	-0: 0	0:16	B8	7.02	.00	403	38	316	1872	2100	5.78
1092	3.0C	708	362	18:14:35	-33:24:56	209966	-0: 7	-0:20	B8	7.02	.00	123	21	22	1076	530	6.34
1093	10.0C	716	359	18:14:35	-33:24:56	209966	-0:12	-0:12	B8	7.02	.00	284	58	36	4971	675	6.07
1094	30.0C	719	355	18:14:35	-33:24:56	209966	-0:12	-0:12	B8	7.02	.00	295	123	76	11835	930	5.72
1095	3.0C	527	304	18:14:44	-29:16:37	186607	-0: 5	2:54	B8	8.50	.00	375	18	325	584	835	6.79
1096	3.0C	523	297	18:14:44	-29:16:37	186607	0: 1	1:23	B8	8.50	.00	71	11	21	371	280	7.03
1097	10.0C	531	294	18:14:44	-29:16:37	186607	-0: 1	0:40	B8	8.50	.00	146	30	39	1571	205	7.37
1098	30.0C	535	287	18:14:44	-29:16:37	186607	-0: 1	1:56	B8	8.50	.00	202	71	94	3854	210	7.35
1099	3.0C	265	199	18:14:45	-23:17:48	186608	-0:12	-0:55	B8	8.00	.00	376	127	293	4745	6450	4.56
1100	3.0C	260	191	18:14:45	-23:17:48	186608	-0: 6	0:11	B8	8.00	.00	70	21	22	667	400	6.64

## PAGE. CARRUTHERS, AND HECKATHORN

SAGITTARIUS WEST. R.A. 18:34 DEC. -30:24 (6 FRAMES)

OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	S.A.O. NO.	Δ R.A.	Δ DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	B.G.	DENSITY VOLUME	CORR. V/E	UV MAG.
1101	10.0C	268	188	18:14:45	-23:17:48	186608	-0:10	-0:28	88	8.00	.00	167	63	37	34700H	487	6.43
1102	30.0C	273	178	18:14:45	-23:17:48	186608?	-0:25	2:2	88	8.00	.00	289	226	88	16969H	1600	5.13
1103	3.0L	847	426	18:14:52	-36:22:26	209970	-0:8	-1:2	88	9.09	8.53	341	35	283	1354H	1400	6.23
1104	3.0C	842	418	18:14:52	-36:22:26	209970	-0:8	-0:57	88	9.09	8.53	66	14	22	432	300	6.96
1105	10.0C	850	415	18:14:52	-36:22:26	209970	-0:10	0:4	88	9.09	8.53	167	48	36	2777H	350	6.79
1106	30.0C	855	407	18:14:52	-36:22:26	209970	-0:19	0:45	88	9.09	8.53	198	85	72	6341H	380	6.70
1107	3.0L	348	235	18:14:55	-25:6:4	186614	-0:20	-4:32	A0	8.90	.00	343	28	303	9007H	1500*	6.15
1108	3.0L	343	239	18:14:55	-25:6:4	186614	0:5	0:2	A0	8.90	.00	344	9	306	276		
1109	10.0C	347	229	18:14:55	-25:6:4	186614	0:10	-1:5	A0	8.90	.00	60	5	34	115L	53	8.85
1110	30.0C	358	216	18:14:55	-25:6:4	186614?	-0:29	-5:54	A0	8.90	.00	101	9	75	2107L		
1111	30.0C	352	218	18:14:55	-25:6:4	186614	-0:7	0:16	A0	8.90	.00	108	28	74	756L	53*	8.85
1112	3.0L	547	313	18:14:56	-29:43:57	186615	-0:4	1:2	89	8.70	.00	366	7	323	222	420	7.54
1113	10.0C	540	303	18:14:56	-29:43:57	186615	-0:2	1:37	89	8.70	.00	100	22	36	794	125	7.91
1114	30.0C	555	294	18:14:56	-29:43:57	186615	-0:9	2:9	89	8.70	.00	146	58	78	2485	120	7.96
1115	3.0L	448	277	18:14:59	-27:27:54	186616	-0:8	0:47	89	9.40	.00	364	23	321	672H	1480*	6.17
1116	3.0L	447	282	18:14:59	-27:27:54	186616	0:20	-0:13	89	9.40	.00	349	12	319	3087H		
1117	10.0C	450	267	18:14:59	-27:27:54	186616	-0:5	1:12	89	9.40	.00	62	3	36	70L	38	9.21
1118	30.0C	454	260	18:14:59	-27:27:54	186616	-0:1	1:54	89	9.40	.00	104	14	80	309L	22	9.81
1119	3.0L	731	378	18:15:0	-33:47:32	209973?	-0:28	-2:34	89	9.01	8.61	333	6	305	151	310	7.87
1120	10.0C	731	370	18:15:0	-33:47:32	209973	-0:3	-0:55	89	9.01	8.61	77	15	36	454	88	8.30
1121	30.0C	737	360	18:15:0	-33:47:32	209973?	-0:25	-0:33	89	9.01	8.61	120	43	80	1280	57	8.77
1122	3.0L	279	210	18:15:3	-23:40:23	186617	-0:6	1:5	89	9.10	.00	343	22	288	6687H	870	6.75
1123	30.0C	286	190	18:15:3	-23:40:23	186617	-0:14	3:37	89	9.10	.00	115	13	89	2977L	20	9.91
1124	3.0L	389	258	18:15:4	-26:8:38	NO	0:1	0:49				350	8	314	246	440	7.49
1125	10.0C	393	247	18:15:4	-26:8:38	NO	-0:1	-1:1				65	6	36	149	58	8.75
1126	30.0C	397	239	18:15:4	-26:8:38	NO	-0:1	0:13				115	31	79	852	40	9.16
1127	1.0L	770	397	18:15:10	-34:42:23	209978	-0:6	-1:24	88	6.86	.00	146	24	86	852	1180	6.41
1128	3.0L	769	398	18:15:10	-34:42:23	209978	-0:6	-1:11	88	6.86	.00	409	46	304	2672	2600	5.55
1129	3.0C	764	390	18:15:10	-34:42:23	209978	-0:10	-0:38	88	6.86	.00	162	32	23	1850	820	5.86
1130	10.0C	772	388	18:15:10	-34:42:23	209978	-0:4	-1:43	88	6.86	.00	336	66	43	6665	980	5.67
1131	30.0C	776	381	18:15:10	-34:42:23	209978	-0:4	-0:19	88	6.86	.00	333	146	84	13000	1100	5.54
1132	3.0L	312	225	18:15:11	-24:22:33	186620	-0:10	-0:51	89	9.10	.00	329	8	308	1377		
1133	3.0L	311	230	18:15:11	-24:22:33	186620/	0:11	-2:34	89	9.10	.00	343	49	370	2000H	2500*	5.59
1134	10.0C	314	220	18:15:11	-24:22:33	186620/	0:17	-2:31	89	9.10	.00	61	9	3	213L	66	8.61
1135	30.0C	318	210	18:15:11	-24:22:33	186620/	0:8	-0:26	89	9.10	.00	121	54	78	1658	77	8.44
1136	3.0L	499	300	18:15:12	-28:40:32	186621	0:5	1:36	A2	8.90	.00	354	5	329	120	285	7.96
1137	3.0L	205	176	18:15:14	-22:1:24	186622	-0:20	1:36	A0	9.40	.00	319	13	283	3617H		
1138	3.0L	199	181	18:15:14	-22:1:24	186622?	0:9	5:42	A0	9.40	.00	318	16	283	4427H		
1139	30.0C	212	161	18:15:14	-22:1:24	186622?	-0:4	1:58	A0	9.40	.00	108	8	83	1877L	17	10.09
1140	3.0L	755	396	18:15:16	-34:26:54	NO*	0:7	0:37				336	8	307	193	385	7.64
1141	10.0C	759	386	18:15:16	-34:26:54	NO*	0:7	-1:5				72	10	39	258	68	8.58
1142	30.0C	764	376	18:15:16	-34:26:54	NO*	-0:13	0:28				113	32	84	718	35	9.30
1143	3.0L	204	151	18:15:23	-23:3:57	186625	0:2	-0:34	A0	9.30	.00	335	7	199	9327H	1140	6.45
1144	30.0C	597	318	18:15:30	-30:4:3							9*	10	74	1997	19	9.97
1145	3.0L	230	193	18:15:35	-22:34:5	186627	-0:21	-1:48	A0	8.80	.00	713	5	289	1.5		
1146	3.0L	229	196	18:15:35	-22:34:5	186627	-0:4	-1:54	A0	8.80	.00	327	44	288	10127H	1400*	6.23
1147	10.0C	231	183	18:15:35	-22:34:5	186627	-0:11	0:33	A0	8.80	.00	67	20	34	526	97	8.19
1148	30.0C	236	175	18:15:35	-22:34:5	186627	-0:12	0:36	A0	8.80	.00	135	70	81	2601	125	7.91
1149	3.0L	612	344	18:15:36	-31:14:56	209983	-0:4	0:1	A0	8.51	8.74	344	17	315	4177*	555	7.06
1150	30.0C	621	322	18:15:36	-31:14:56	209983?	-0:28	1:20	A0	8.10	8.74	97	4	75	857L	12	10.47

NRL REPORT 8487

SAGITTARIUS WEST. R.A. 18:34 DEC. -30:24 (6 FRAMES)

OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAO NO.	Δ R.A.	Δ DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	BG	DENSITY VOLUME	CORR. V/E	UV MAG.
1151	3.0L	311	230	18:15:37	-24:24:38	186630/	-0:15	-0:29	88	9.40	.00	343	49	300	2000 M	2200	5.73
1152	10.0C	314	220	18:15:37	-24:24:38	186630/	-0:8	-0:26	88	9.40	.00	61	9	33	213 L	66	8.61
1153	30.0C	318	210	18:15:37	-24:24:38	186630/	-0:18	1:39	88	9.40	.00	121	54	78	1658	77	8.44
1154	3.0L	270	218	18:15:51	-23:31:47	NO						324	9	298	234	410	7.57
1155	3.0L	477	299	18:15:53	-28:14:11	186635	-0:5	2:5	89	9.10	.00	377	34	322	1113 M	1350	6.27
1156	3.0C	472	292	18:15:53	-28:14:11	186635	-0:2	2:10	89	9.10	.00	52	4	21	111	245	7.18
1157	10.0C	480	289	18:15:53	-28:14:11	186635	-0:5	1:28	89	9.10	.00	109	22	37	926	140	7.79
1158	30.0C	484	283	18:15:53	-28:14:11	186635	-0:6	1:51	89	9.10	.00	149	64	80	2727	130	7.87
1159	3.0L	411	275	18:15:57	-26:45:34	186637	-0:10	3:20	A0	9.10	.00	356	27	313	7857M	1350*	6.27
1160	3.0L	410	279	18:15:57	-26:45:34	186637	-0:13	2:47	A0	9.10	.00	345	6	309	175?		
1161	3.0L	245	207	18:15:59	-22:58:15	186639	-0:7	-0:34	89	9.20	.00	324	22	290	5517M	750	6.91
1162	30.0C	254	187	18:15:59	-22:58:15	186639	-0:19	-0:23	89	9.20	.00	122	55	82	1575?	73	8.50
1163	3.0L	645	367	18:16:12	-32:4:52	209990	-0:18	0:51	A0	9.38	9.38	343	23	306	7107M	915	6.69
1164	3.0L	510	315	18:16:13	-29:1:16	186642	-0:7	2:2	A0	8.50	.00	356	9	328	183	400	7.59
1165	3.0C	506	308	18:16:13	-29:1:16	186642	0:1	1:42	A0	8.50	.00	60	8	22	227	230	7.25
1166	10.0C	514	305	18:16:13	-29:1:16	186642	-0:1	0:60	A0	8.50	.00	123	27	36	170	7.58	
1167	30.0C	519	295	18:16:13	-29:1:16	186642	-0:14	1:58	A0	8.50	.00	181	71	82	3876	195	7.43
1168	3.0L	365	262	18:16:15	-25:41:7	NO	-0:4	-1:24				348	25	304	740	755	6.90
1169	10.0C	367	252	18:16:15	-25:41:7	NO	-0:1	0:18				71	11	34	320	75	8.47
1170	30.0C	371	245	18:16:15	-25:41:7	NO	0:5	1:7				119	39	76	1216	54	8.83
1171	10.0C	913	453	18:16:22	-37:37:24	209993?	-0:26	-1:12	A2	8.89	8.65	56	3	33	66 L	37	9.24
1172	30.0C	917	446	18:16:22	-37:37:24	209993?	-0:21	-9:14	A2	8.89	8.65	93	25	68	570	30	9.47
1173	3.0L	259	216	18:16:27	-23:19:53	186648	-0:20	1:22	A2	9.30	.00	323	49	280	15697M	2900*	5.43
1174	3.0L	254	220	18:16:27	-23:19:53	186648	0:7	4:21	A2	9.30	.00	322	34	278	10767M		
1175	3.0L	486	309	18:16:31	-28:27:53	186652	-0:7	0:47	88	9.10	.00	361	32	318	992 M	1250	5.35
1176	10.0C	488	299	18:16:31	-28:27:53	186652	-0:5	1:22	88	9.10	.00	91	21	35	701	115	8.00
1177	30.0C	493	290	18:16:31	-28:27:53	186652	-0:12	1:53	88	9.10	.00	138	49	84	1697	80	8.40
1178	3.0L	444	299	18:16:34	-27:31:39	186653	0:14	-1:4	A2	8.40	.00	337	5	313	1117	255	8.08
1179	3.0L	826	437	18:16:37	-36:1:49	209995	-0:0	-3:40	A5	9.15	9.26	353	34	281	1510 M	1550	6.12
1180	3.0C	820	428	18:16:37	-36:1:49	209995	-0:9	-1:34	A5	9.15	9.26	72	18	21	617 M	375	6.71
1181	10.0C	828	426	18:16:37	-36:1:49	209995	-0:2	-2:34	A5	9.15	9.26	185	52	34	3269 M	415	6.60
1182	30.0C	832	421	18:16:37	-36:1:49	209995	0:11	-0:55	A5	9.15	9.26	216	114	72	7974 M	520	6.36
1183	3.0L	221	210	18:16:38	-22:33:2	186655	0:13	-0:17	A5	9.20	.00	312	20	282	486 M	675	7.02
1184	3.0L	826	437	18:16:39	-36:3:29	209996/	-0:2	-0:7	88	8.67	8.26	353	34	281	1510 M	1550	6.12
1185	3.0C	820	428	18:16:39	-36:3:29	209996/	-0:11	0:7	88	8.67	8.26	72	18	21	617 M	380	6.70
1186	10.0C	828	426	18:16:39	-36:3:29	209996/	-0:4	0:54	88	8.67	8.26	185	52	34	3269 M	415	6.60
1187	30.0C	832	421	18:16:39	-36:3:29	209996/	0:9	0:45	88	8.67	8.26	216	114	72	7974 M	520	6.36
1188	10.0C	959	479	18:16:42	-38:50:1	209999	0:6	0:34	88	9.00	9.29	62	11	34	268 L	73	8.50
1189	30.0C	965	469	18:16:42	-38:50:1	210001/	-0:17	0:59	88	9.00	9.29	107	66	67	1892	90	8.27
1190	1.0L	658	374	18:16:47	-32:23:23	210001/	0:3	1:45	89	9.39	9.19	110	6	86	127	445	7.48
1191	3.0L	657	376	18:16:47	-32:23:23	210001/	0:8	1:15	89	9.39	9.19	376	32	306	1430 M	1430	6.20
1192	3.0C	652	368	18:16:47	-32:23:23	210001/	0:4	1:8	89	9.39	9.19	78	20	21	691 M	400	6.64
1193	10.0C	660	365	18:16:47	-32:23:23	210001/	0:4	1:9	89	9.39	9.19	197	55	42	3247 M	415	6.60
1194	30.0C	665	356	18:16:47	-34:47:49	210002	-0:4	0:25	89	9.39	9.19	237	144	74	9500 M	700	6.03
1195	1.0L	767	414	18:16:48	-34:47:49	210002	-0:6	0:45	89	7.81	7.35	115	11	84	283	600	7.15
1196	3.0L	767	415	18:16:48	-34:47:49	210002	-0:8	-0:31	89	7.81	7.35	375	38	291	1868 M	1950	5.87
1197	3.0C	762	407	18:16:48	-34:47:49	210002	-0:7	-0:26	89	7.81	7.35	88	20	21	737	420	6.59
1198	10.0C	770	405	18:16:48	-34:47:49	210002	-0:1	-1:28	89	7.81	7.35	216	51	35	3431	435	6.55
1199	30.0C	774	398	18:16:48	-34:47:49	210002	-0:1	-0:11	89	7.81	7.35	231	113	73	9132	630	6.15
1200	3.0L	181	192	18:16:50	-21:45:19	186659	-0:1	4:43	A0	9.20	.00	307	16	274	4437M	590	7.17

PAGE, CARRUTHERS, AND HECKATHORN

SAGITTARIUS WEST. R.A. 18:34 DEC. -30:24 (6 FRAMES)

OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	S.A.O. NO.	A. R.A.	A. DEC.	SPEC. TYPE	V. MAG.	P. MAG.	PEAK DEN.	NO. OF POINTS	B.G.	DENSITY VOLUME	CORR. V/E	UV MAG.
1201	10.0C	189	180	18:16:50	-21:45:19	186659	-0:14	-0:13	A0	9.20	.00	54	5	32	104 L	51	8.89
1202	30.0C	191	181	18:16:50	-21:45:19	186659	0:30	0:0	A0	9.20	.00	109	59	71	1612	75	8.47
1203	1.0L	658	374	18:16:51	-32:21:50	210003	-0:1	0:12	B8	8.90	8.56	110	6	86	127	445	7.48
1204	3.0L	657	376	18:16:51	-32:21:50	210003	0:6	0:18	B8	8.90	8.56	376	32	306	1330 H	1430	6.20
1205	3.0C	652	368	18:16:51	-32:21:50	210003	0:2	0:15	B8	8.90	8.56	78	20	21	691 H	400	6.64
1206	10.0C	650	365	18:16:51	-32:21:50	210003	0:1	0:24	B8	8.90	8.56	197	55	42	3247 H	415	6.60
1207	30.0C	655	356	18:16:51	-32:21:50	210003	0:7	0:13	B8	8.90	8.56	237	144	74	9500 H	700	6.03
1208	1.0L	658	374	18:16:54	-32:23:47	210004	-0:1	2:9	B8	8.77	8.56	110	6	86	127	445	7.48
1209	3.0L	657	376	18:16:54	-32:23:47	210004	0:1	1:39	B8	8.77	8.56	376	32	306	1330 H	1430	6.20
1210	3.0C	652	368	18:16:54	-32:23:47	210004	-0:3	2:12	B8	8.77	8.56	78	20	21	691 H	400	6.64
1211	10.0C	650	365	18:16:54	-32:23:47	210004	-0:4	1:33	B8	8.77	8.56	197	55	42	3247 H	415	6.60
1212	30.0C	655	356	18:16:54	-32:23:47	210004	-0:12	2:10	B8	8.77	8.56	237	144	74	9500 H	700	6.03
1213	1.0L	797	427	18:16:55	-35:27:4	210005	-0:2	1:13	B9	6.72	.00	153	31	84	1190 H	1550	6.12
1214	3.0L	796	428	18:16:55	-35:27:4	210005	-0:2	0:59	B9	6.72	.00	410	58	292	3600 H	3900	5.11
1215	10.0C	800	417	18:16:55	-35:27:4	210005	-0:7	0:28	B9	6.72	.00	355	90	35	9149 H	1400	5.28
1216	3.0C	791	420	18:16:55	-35:27:4	210005	-0:8	0:13	B9	6.72	.00	355	90	35	9149 H	1400	5.28
1217	30.0C	804	410	18:16:55	-35:27:4	210005	-0:7	0:18	B9	6.72	.00	351	150	73	18926	1600	5.13
1218	3.0L	315	249	18:16:56	-24:37:15	186661	-0:9	0:15	B9	9.60	.00	325	15	299	298 H	500	7.35
1219	10.0C	317	238	18:16:56	-24:37:15	186661	-0:8	0:16	B9	9.60	.00	69	14	33	381	84	8.35
1220	30.0C	323	228	18:16:56	-24:37:15	186661	-0:25	1:36	B9	9.60	.00	123	51	77	1678	76	8.46
1221	3.0L	367	280	18:16:58	-26:11:47	186663	-0:2	3:55	B9	8.70	.00	334	10	307	228	430	7.51
1222	3.0L	776	420	18:16:59	-35:0:4	210008	-0:10	1:1	B8	9.42	9.03	336	15	294	445 H	610	7.13
1223	3.0C	770	413	18:16:59	-35:0:4	210008	-0:7	0:14	B8	9.42	9.03	62	12	20	356 H	280	7.03
1224	10.0C	779	410	18:16:59	-35:0:4	210008	-0:8	1:32	B8	9.42	9.03	87	18	35	630	108	8.07
1225	30.0C	783	403	18:16:59	-35:0:4	210008	-0:3	0:35	B8	9.42	9.03	126	46	80	1487	140*	7.79
1226	30.0C	782	406	18:16:59	-35:0:4	210008	0:11	0:20	B8	9.42	9.03	125	58	73	1608	140*	7.79
1227	1.0L	658	374	18:17:1	-32:21:59	210009	-0:11	0:21	B8	8.29	7.89	110	6	86	127 L	445	7.48
1228	3.0L	657	376	18:17:1	-32:21:59	210009	-0:5	0:9	B8	8.29	7.89	376	32	306	1330 H	1430	6.20
1229	3.0C	652	368	18:17:1	-32:21:59	210009	-0:9	0:24	B8	8.29	7.89	78	20	21	691	400	6.64
1230	10.0C	650	365	18:17:1	-32:21:59	210009	-0:9	0:15	B8	8.29	7.89	197	55	42	3247 H	415	6.60
1231	30.0C	655	356	18:17:1	-32:21:59	210009	-0:17	0:21	B8	8.29	7.89	237	144	74	9500 H	700	6.03
1232	3.0L	658	374	18:17:5	-24:57:58	186665	-0:18	3:5	B9	9.00	.00	341	16	296	526	700	6.98
1233	10.0C	332	246	18:17:5	-24:57:58	186665	-0:10	0:24	B9	9.00	.00	66	9	32	246 L	70	8.55
1234	30.0C	337	236	18:17:5	-24:57:58	186665	-0:21	1:19	B9	9.00	.00	113	38	75	1073 L	50	8.91
1235	3.0L	173	197	18:17:16	-21:30:50	186673	0:13	-2:34	A2	9.00	.00	298	7	270	1672	310	7.87
1236	30.0C	185	184	18:17:16	-21:30:50	186673	0:31	-6:46	A2	9.00	.00	100	5	71	1262L	15	10.23
1237	3.0L	204	205	18:17:23	-22:10:47	186675	-0:21	-1:6	B8	8.80	.00	309	18	279	433?	600	7.15
1238	3.0L	253	231	18:17:33	-23:21:13	186677	-0:6	2:37	A0	9.40	.00	321	36	283	10222H	1650*	6.05
1239	3.0L	251	235	18:17:33	-23:21:13	186677	0:18	3:16	A0	9.40	.00	313	13	277	3627H	1650*	6.05
1240	3.0L	353	273	18:17:37	-25:29:41	186679	-0:12	-3:0	B9	8.90	.00	325	4	296	1102L	1480*	6.17
1241	3.0L	359	274	18:17:37	-25:29:41	186679	0:1	1:17	B9	8.90	.00	340	35	292	1139 H	1480*	6.17
1242	10.0C	353	262	18:17:37	-25:29:41	186679	-0:6	-0:7	B9	8.90	.00	81	18	32	594	105	8.10
1243	30.0C	358	252	18:17:37	-25:29:41	186679	-0:21	2:24	B9	8.90	.00	128	56	72	2110	103	8.12
1244	3.0L	961	504	18:17:47	-39:2:43	210022	0:10	0:41	B9	6.70	.00	286	25	240	795	1000	6.59
1245	3.0C	957	497	18:17:47	-39:2:43	210022	0:7	-0:31	B9	6.70	.00	51	17	20	437 L	320	6.89
1246	10.0C	955	493	18:17:47	-39:2:43	210022	0:13	0:13	B9	6.70	.00	136	68	33	3463	465	6.48
1247	30.0C	959	487	18:17:47	-39:2:43	210022	0:17	1:12	B9	6.70	.00	182	139	60	8310	540	6.32
1248	1.0L	479	325	18:17:50	-28:22:17	186684	0:11	-3:40	A0	8.80	.00	282	69	87	6761 H	10770	4.00
1249	3.0L	476	322	18:17:50	-28:22:17	186684	-0:4	0:38	A0	8.80	.00	363	73	312	2631 H	2559	5.57
1250	10.0C	479	311	18:17:50	-28:22:17	186684	-0:2	1:13	A0	8.80	.00	70	11	33	317 L	75	8.47

NRL REPORT 8487

SAGITTARIUS WEST, R.A. 18:34 DEC. -30:24 (6 FRAMES)

OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAO NO.	A R.A.	A DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	BG	DENSITY VOLUME	CORR. V/E	UV MAG
1251	30.0C	484	301	18:17:50	-28:22:17	186684	-0:20	2:35	A0	8.80	.00	113	33	74	10092L	46	9.00
1252	30.0C	580	359	18:17:54	-30:39:54	210023	-0:6	-2:56	A3	8.77	8.77	332	7	305	1622	330	7.80
1253	30.0C	911	465	18:17:59	-37:48:46	210026	0:1	1:33	B9	6.98	.00	110	14	69	4072	25	9.67
1254	30.0C	590	363	18:18:2	-30:57:54	210026	-0:5	2:15	B9	6.98	.00	139	15	84	553	830	6.80
1255	30.0C	589	364	18:18:2	-30:57:54	210026	0:0	0:44	B9	6.98	.00	403	45	305	2333	2500	5.59
1256	30.0C	585	357	18:18:2	-30:57:54	210026	-0:1	0:4	B9	6.98	.00	119	22	22	1075	530	6.34
1257	10.0C	593	354	18:18:2	-30:57:54	210026	-0:19	1:31	B9	6.98	.00	277	56	33	4650	610	5.18
1258	30.0C	598	344	18:18:2	-30:57:54	210026	-0:2	-0:6				296	114	76	10770	820	5.86
1259	30.0C	876	472	18:18:3	-37:15:25	NO*	-0:9	-0:49				344	35	266	15137	1500	6.15
1260	30.0C	872	464	18:18:3	-37:15:25	NO*	-0:5	-0:8				72	24	22	778	445	6.53
1261	10.0C	880	461	18:18:3	-37:15:25	NO*	0:14	1:5				192	64	34	4157	560	6.28
1262	30.0C	883	457	18:18:3	-37:15:25	NO*	0:11	-1:14	A3	7.07	.00	225	137	70	9944	700	6.03
1263	30.0C	645	387	18:18:4	-32:12:18	210027	0:8	-4:7	A3	7.07	.00	331	6	307	133 L	290	7.94
1264	10.0C	651	376	18:18:4	-32:12:18	210027	-0:9	1:20	A2	9.00	.00	80	13	36	410 L	83	8.36
1265	30.0C	351	278	18:18:6	-25:33:55	186689	0:18	-2:16	A2	9.00	.00	322	6	292	1562	490	7.37
1266	30.0C	352	284	18:18:6	-25:33:55	186689	-0:8	2:35	A	9.60	9.23	330	12	298	294 M	65	8.63
1267	30.0C	707	407	18:18:12	-33:38:27	210031	-0:5	-0:44	A	9.60	9.23	68	8	37	210	34	9.33
1268	10.0C	712	398	18:18:12	-33:38:27	210031	-0:11	1:4	A	9.60	9.23	108	24	72	650	290	7.94
1269	30.0C	717	390	18:18:14	-32:16:29	210032	0:1	2:57	B8	8.80	8.56	331	6	307	133 L	83	8.36
1270	30.0C	645	387	18:18:14	-32:16:29	210032	-0:2	0:3	B8	8.80	8.56	80	13	36	410 L	79	8.41
1271	10.0C	651	376	18:18:14	-32:16:29	210032	0:24	2:1	B8	8.80	8.56	132	46	70	1712 L	19	9.97
1272	30.0C	653	373	18:18:14	-32:16:29	210032	0:15	-1:36	A0	9.10	.00	310	8	282	1942	360	7.71
1273	30.0C	179	190	18:18:23	-21:34:43	186700	-0:7	2:4	A0	8.50	8.31	107	12	69	3392	22	9.81
1274	30.0C	280	260	18:18:32	-24:0:41	186700	-0:30	0:54	A0	8.83	8.56	113	9	67	2887L	21	9.86
1275	30.0C	176	192	18:18:37	-21:33:13	210043	-0:9	5:17	A2	6.07	.00	354	27	314	700	980	6.62
1276	30.0C	644	369	18:18:40	-32:4:8	210043	-0:4	0:17	A2	6.07	.00	68	11	35	280 L	74	8.48
1277	30.0C	908	467	18:18:47	-37:47:2	186704	0:8	1:52	A2	6.07	.00	112	41	75	1121 L	50	8.91
1278	30.0C	473	331	18:18:50	-28:27:16	186704	0:1	-2:41	A0	9.40	.00	332	7	306	1467	680*	7.01
1279	10.0C	479	323	18:18:50	-28:27:16	186704	0:7	4:51	A0	9.40	.00	331	8	301	1937	74	8.48
1280	30.0C	482	318	18:18:50	-28:27:16	186704	-0:7	2:45	A0	9.40	.00	68	11	35	280	50	8.91
1281	30.0C	480	336	18:18:53	-28:29:45	186706	-0:12	-3:15	A0	9.20	.00	293	12	268	2697	430	7.51
1282	30.0C	474	336	18:18:53	-28:29:45	186706	-0:11	-1:48	A3	8.60	.00	292	4	269	897	195	8.38
1283	10.0C	479	323	18:18:53	-28:29:45	186706	-0:5	0:4	A0	9.35	9.08	331	10	294	291	465	7.43
1284	30.0C	482	318	18:18:53	-28:29:45	186706	0:2	-0:53	A0	9.35	9.08	80	18	33	581	105	8.10
1285	30.0C	195	223	18:18:55	-22:6:24	186710	-0:9	0:15	B8	7.70	.00	100	12	74	268 L	898	6.71
1286	30.0C	191	221	18:18:57	-22:2:47	186712	-0:14	-0:39	B8	7.70	.00	375	60	276	2840 M	3050	5.38
1287	30.0C	702	415	18:18:58	-33:33:6	210052	-0:5	-1:10	B8	7.70	.00	81	27	20	1023	540	6.32
1288	10.0C	705	405	18:18:58	-33:33:6	210052	-0:8	-0:33	B8	7.70	.00	195	63	33	43100	511	6.38
1289	10.0C	231	238	18:18:59	-22:56:47	186715	-0:2	0:15	B8	7.70	.00	309	185	81	15701	1350	5.32
1290	30.0C	231	239	18:18:59	-22:56:47	186715	-0:11	2:40	B8	9.00	.00	336	24	288	776 M	1250*	6.35
1291	30.0C	226	232	18:18:59	-22:56:47	186715	0:11	-1:48	B8	9.00	.00	317	5	289	1237L	68	8.58
1292	10.0C	234	229	18:18:59	-22:56:47	186715	-0:8	0:27	B8	9.00	.00	65	9	32	240 L	55	8.81
1293	30.0C	238	223	18:18:59	-22:56:47	186715	0:5	2:1	B8	9.00	.00	107	41	69	1194 L	898	6.71
1294	30.0C	339	284	18:19:0	-25:23:33	186716	-0:9	0:15	B8	7.06	.00	375	60	276	2840 M	3050	5.38
1295	10.0C	340	289	18:19:0	-25:23:33	186716	-0:14	-0:39	B8	7.06	.00	81	27	20	1023	540	6.32
1296	30.0C	346	270	18:19:0	-25:23:33	186716	-0:5	-1:10	B8	7.06	.00	375	60	276	2840 M	3050	5.38
1297	30.0C	231	238	18:19:1	-22:56:47	186717	-0:5	-1:10	B8	7.06	.00	81	27	20	1023	540	6.32
1298	30.0C	231	239	18:19:1	-22:56:47	186717	-0:5	-1:10	B8	7.06	.00	81	27	20	1023	540	6.32
1299	30.0C	226	232	18:19:1	-22:56:47	186717	-0:5	-1:10	B8	7.06	.00	81	27	20	1023	540	6.32
1300	30.0C	226	232	18:19:1	-22:56:47	186717	-0:5	-1:10	B8	7.06	.00	81	27	20	1023	540	6.32



PAGE, CARRUTHERS, AND HECKATHORN

SAGITTARIUS WEST, R.A. 18.34 DEC. -30.24 (6 FRAMES)

OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAO NO.	$\Delta$ R.A.	$\Delta$ DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	BG	DENSITY VOLUME	CORR. V/E	UV MAG.
1301	10.0C	234	229	18:19:1	-22:56:47	186717/	-0:8	-0:33	B8	7.06	.00	195	63	33	43100	511	6.38
1302	30.0C	238	223	18:19:1	-22:56:47	186717/	-0:2	-0:15	B8	7.06	.00	309	185	81	15701	1350	5.32
1303	3.0L	334	281	18:19:2	-25:15:53	186718/	-0:18	2:9	A2	8.80	.00	318	4	289	102?		
1304	3.0L	339	284	18:19:2	-25:15:53	186718/	-0:12	-5:1	A2	8.80	.00	336	24	288	776 H	1150*	6.44
1305	3.0L	202	234	18:19:3	-22:19:20	186719	-0:18	-2:37	A0	8.60	.00	297	9	267	229?	390	7.62
1306	30.0C	210	210	18:19:3	-22:19:20	186719	-0:8	0:1	A0	8.60	.00	102	13	78	284?L	22	9.81
1307	3.0L	500	342	18:19:4	-28:56:41	186720	-0:18	-2:1	B9	9.20	.00	338	4	311	987L		
1308	3.0L	495	343	18:19:4	-28:56:41	186720	-0:2	3:28	B9	9.20	.00	343	47	299	1590 H	1950*	5.87
1309	10.0C	499	333	18:19:4	-28:56:41	186720	-0:4	1:43	B9	9.20	.00	61	6	33	149 L	57	8.77
1310	30.0C	503	327	18:19:4	-28:56:41	186720	-0:7	2:10	B9	9.20	.00	100	19	70	486?L	28	9.54
1311	3.0L	317	277	18:19:9	-24:55:49	186722	-0:14	3:47	B8	8.90	.00	317	7	289	182?	320	7.84
1312	3.0L	463	333	18:19:10	-28:12:57	186723	-0:5	2:22	B8	8.50	.00	342	18	311	3730	7000*	4.47
1313	3.0L	467	335	18:19:10	-28:12:57	186723	-0:3	-3:14	B8	8.50	.00	351	55	302	1888?H		
1314	3.0L	307	274	18:19:12	-24:39:26	186724	-0:9	-0:0	A7	9.20	.00	313	4	288	92?	210	8.30
1315	1.0L	386	304	18:19:14	-26:26:29	186726	-0:7	1:26	B	7.99	.00	131	16	82	501	1048	6.54
1316	3.0L	385	305	18:19:14	-26:26:29	186726	-0:9	1:42	B	7.99	.00	400	64	298	2800	3100	5.36
1317	3.0C	380	298	18:19:14	-26:26:29	186726	-0:1	1:18	B	7.99	.00	111	19	23	930	475	6.46
1318	10.0C	388	295	18:19:14	-26:26:29	186726	-0:4	0:41	B	7.99	.00	228	52	34	3688	475	6.46
1319	30.0C	392	289	18:19:14	-26:26:29	186726	-0:1	1:29	B	7.99	.00	277	122	74	10537	800	5.89
1320	3.0L	412	315	18:19:18	-26:56:7	186730/	-0:13	-4:49	A0	8.80	.00	326	7	301	158?L		
1321	3.0L	406	316	18:19:18	-26:56:7	186730/	-0:4	1:51	A0	8.80	.00	349	32	300	1022 H	1480*	6.17
1322	10.0C	410	304	18:19:18	-26:56:7	186730/	-0:3	0:30	A0	8.80	.00	76	13	34	393 L	83	8.36
1323	30.0C	415	294	18:19:18	-26:56:7	186730/	-0:19	1:25	A0	8.80	.00	116	23	77	725 L	35	9.30
1324	3.0L	412	315	18:19:23	-26:56:11	186733/	-0:17	-4:46	A0	8.40	.00	326	7	301	158?L		
1325	10.0C	406	316	18:19:23	-26:56:11	186733/	-0:7	0:33	A0	8.40	.00	349	32	300	1022 H	1480*	6.17
1326	3.0L	410	304	18:19:23	-26:56:11	186733/	-0:7	0:33	A0	8.40	.00	76	13	34	393 L	83	8.36
1327	30.0C	415	294	18:19:23	-26:56:11	186733/	-0:24	1:29	A0	8.40	.00	116	23	77	725 L	35	9.30
1328	10.0C	988	518	18:19:26	-39:40:11	NO*	-0:1	-3:48			.00	55	5	34	105	50	8.91
1329	30.0C	992	510	18:19:26	-39:40:11	NO*	-0:2	3:47			.00	97	34	67	825	41	9.13
1330	1.0L	845	473	18:19:29	-36:41:41	210061	-0:7	-0:24	B8	5.39	.00	288	65	83	4820 H	8200	4.30
1331	3.0L	843	474	18:19:29	-36:41:41	210061	-0:4	1:1	B8	5.39	.00	436	124	276	9754	10800	4.00
1332	0.5C	848	467	18:19:29	-36:41:41	210061	-0:1	0:17	B8	5.39	.00	154	40	24	2210 H	6100	3.67
1333	3.0C	839	467	18:19:29	-36:41:41	210061	-0:6	-0:8	B8	5.39	.00	378	90	23	9366	4550	3.99
1334	10.0C	847	484	18:19:29	-36:41:41	210061	-0:2	0:33	B8	5.39	.00	416	202	37	25188	4750	3.94
1335	30.0C	850	458	18:19:29	-36:41:41	210061	-0:5	2:38	B8	5.39	.00	402	399	70	50873	4200	4.08
1336	1.0L	549	366	18:19:33	-30:9:57	210064	-0:1	1:42	B	8.52	8.07	133	14	84	454	735	6.93
1337	3.0L	548	367	18:19:33	-30:9:57	210064	-0:2	1:59	B	8.52	8.07	394	39	308	1780	2000	5.84
1338	3.0C	544	360	18:19:33	-30:9:57	210064	-0:2	0:15	B	8.52	8.07	102	21	21	894	485	6.43
1339	10.0C	552	357	18:19:33	-30:9:57	210064	-0:4	0:15	B	8.52	8.07	238	51	33	3708	465	6.48
1340	30.0C	555	352	18:19:33	-30:9:57	210064	-0:4	0:15	B	8.52	8.07	275	124	67	10567	750	5.96
1341	10.0C	992	525	18:19:55	-39:50:30	NO*	0:15	1:27	B	8.52	8.07	76	24	34	715	120	7.96
1342	3.0L	462	342	18:19:56	-28:13:16						.00	357	98	302	3324?	4000	5.08
1343	3.0L	212	244	18:20:2	-22:38:7	186743	-0:15	0:47	B9	9.00	.00	308	13	269	353	500	7.35
1344	10.0C	216	234	18:20:2	-22:38:7	186743	-0:12	-1:27	B9	9.00	.00	58	8	33	178 L	61	8.70
1345	30.0C	220	227	18:20:2	-22:38:7	186743	-0:10	0:38	B9	9.00	.00	114	55	74	1649	77	8.44
1346	3.0L	399	322	18:20:7	-26:47:55	186745	0:1	-0:38	A0	9.10	.00	326	5	298	122?	475*	7.41
1347	3.0L	396	325	18:20:7	-26:47:55	186745	0:20	0:28	A0	9.10	.00	322	4	294	98?		
1348	10.0C	992	525	18:20:10	-39:48:26	NO	-0:15	-1:35			.00	76	21	34	650	110	8.05
1349	30.0C	993	521	18:20:10	-39:48:26	NO	0:14	1:34			.00	99	21	67	537	30	9.47
1350	3.0L	428	334	18:20:16	-27:31:44	186747	-0:4	2:35	A0	8.40	.00	339	30	301	726	790	6.85

NRL REPORT 8487

SAGITTARIUS WEST. R.A. 18:34 DEC. -30:24 16 FRAMES)

OBJECT NO.	EXP. FILTER	X	Y	R.A.	DEC.	S.A.O. NO.	Δ R.A.	Δ DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	B0	DENSITY VOLUME	CORR. V/E	UV MAG.
1351	10.0C	432	324	18:20:16	-27:31:44	186747	-0:0	0:24	A0	8.40	.00	65	7	34	173 L	60	8.71
1352	30.0C	437	314	18:20:16	-27:31:44	186747	-0:16	2:55	A0	8.40	.00	107	29	75	730 L	52*	8.87
1353	30.0C	435	320	18:20:16	-27:31:44	186747?	0:20	2:47	A0	8.40	.00	103	8	73	192 L		
1354	1.0L	405	324	18:20:17	-26:58:46	186748	-0:4	1:33	B0	8.80	.00	113	5	85	123 L	467	7.42
1355	3.0L	404	325	18:20:17	-26:58:46	186748	-0:6	1:50	B0	8.80	.00	375	34	310	1015	1866	5.91
1356	3.0C	400	318	18:20:17	-26:58:46	186748	-0:3	1:52	B0	8.80	.00	71	13	21	417 L	300	6.96
1357	10.0C	408	315	18:20:17	-26:58:46	186748	-0:6	1:16	B0	8.80	.00	161	30	35	1791 L	230	7.25
1358	30.0C	413	305	18:20:17	-26:58:46	186748	-0:18	2:10	B0	8.80	.00	208	93	80	5800 L	360	6.76
1359	3.0L	287	287	18:20:28	-24:18:51	186753	0:14	-3:18	A3	9.10	.00	303	4	275	967	210	8.30
1360	3.0L	231	258	18:20:30	-23:5:15	186754	-0:12	0:20	B9	9.00	.00	323	46	268	14407M	1500	6.15
1361	10.0C	234	249	18:20:30	-23:5:15	186754	-0:7	-0:42	B9	9.00	.00	78	25	33	794	130	7.87
1362	30.0C	238	244	18:20:30	-23:5:15	186754	0:3	-0:19	B9	9.00	.00	145	86	74	3637	180	7.51
1363	1.0L	735	446	18:20:31	-34:24:34	210084	0:14	0:5	B9	10.10	9.60	403	127	88	12074 M	31500	2.83
1364	.5C	738	440	18:20:31	-34:24:34	210084	0:24	-0:38	B9	10.10	9.50	366	91	25	9140 M	26800	2.06
1365	3.0C	729	439	18:20:31	-34:24:34	210084	0:15	0:25	B9	10.10	9.60	442	240	25	25361 M	15000	2.69
1366	10.0C	736	436	18:20:31	-34:24:34	210084	0:17	1:4	B9	10.10	9.60	447	438	42	63244 M	12500	2.89
1367	3.0L	299	289	18:20:37	-24:39:1	186759	-0:8	1:55	A0	9.20	.00	303	7	279	142?	280	7.98
1368	3.0L	481	359	18:20:41	-28:41:44	186761	0:7	-2:29	B9	9.00	.00	332	5	308	1077L	245	8.13
1369	3.0L	865	497	18:20:43	-37:14:39	210087	0:6	-0:1	B9	9.02	8.60	46	6	21	132	190	7.46
1370	3.0C	860	489	18:20:43	-37:14:39	210087	0:2	0:39	B9	9.02	8.60	100	32	35	1224	175	7.55
1371	10.0C	868	486	18:20:43	-37:14:39	210087	0:9	2:2	B9	9.02	8.60	144	80	73	3453	170	7.58
1372	30.0C	872	480	18:20:43	-37:14:39	210088	0:1	-2:50	B9	6.79	.00	403	127	88	12074 M	31500	2.83
1373	1.0L	735	446	18:20:44	-34:21:39	210088	0:6	-1:39	B9	6.79	.00	457	329	292	25986 M	42000	2.52
1374	3.0L	733	447	18:20:44	-34:21:39	210088	0:11	-3:33	B9	6.79	.00	366	91	25	9140 M	26800	2.06
1375	.5C	738	440	18:20:44	-34:21:39	210088	0:2	-0:30	B9	6.79	.00	442	240	25	25361 M	15000	2.69
1376	3.0C	729	439	18:20:44	-34:21:39	210088	0:4	-1:51	B9	6.79	.00	447	438	42	63244 M	12500	2.89
1377	10.0C	736	436	18:20:44	-34:21:39	210088	0:13	-0:36	B9	6.79	.00	425	816	74	122476 M	13500	2.80
1378	30.0C	741	431	18:20:44	-34:21:39	210088	-0:16	0:39	B9	9.00	.00	298	15	257	456 M	560	7.23
1379	3.0L	177	238	18:20:46	-21:56:43	186763	-0:13	-0:24	B9	9.00	.00	64	17	32	444	89	8.28
1380	10.0C	181	229	18:20:46	-21:56:43	186763	-0:10	0:21	B9	9.00	.00	133	89	73	3289 M	160	7.64
1381	30.0C	184	225	18:20:46	-21:56:43	186763	-0:6	0:8	A0	1.95	.00	403	127	88	12074 M	31500	2.83
1382	1.0L	735	446	18:20:51	-34:24:36	210091	-0:1	1:18	A0	1.95	.00	457	329	292	25986 L	42000	2.52
1383	3.0L	733	447	18:20:51	-34:24:36	210091	0:4	-0:36	A0	1.95	.00	366	91	25	9140 M	26800	2.06
1384	.5C	738	440	18:20:51	-34:24:36	210091	-0:5	0:28	A0	1.95	.00	442	240	25	25361 L	15000	2.69
1385	3.0C	729	439	18:20:51	-34:24:36	210091	-0:2	1:6	A0	1.95	.00	447	438	42	63244 L	12500	2.89
1386	10.0C	736	436	18:20:51	-34:24:36	210091	0:7	0:22	A0	1.95	.00	425	816	74	122476 L	13500	2.80
1387	30.0C	741	431	18:20:51	-34:24:36	210091	-0:15	-4:43	B9	9.20	.00	300	5	278	1087L	230	8.20
1388	3.0L	310	296	18:20:55	-24:47:51	186765	-0:6	0:0				335	17	292	530	690	7.00
1389	10.0C	366	319	18:21:1	-26:8:17	NO*	-0:6	0:0				79	16	32	519	96	8.20
1390	30.0C	369	309	18:21:1	-26:8:17	NO*	0:12	0:35				126	52	74	1838	87	8.31
1391	30.0C	372	305	18:21:1	-26:8:17	NO*	0:2	-1:55	B8	8.20	7.87	289	13	244	420 L	500	7.35
1392	3.0L	929	526	18:21:5	-38:38:23	210097	-0:0	-3:7	B8	8.20	7.87	50	9	21	224 L	240	7.20
1393	3.0C	925	519	18:21:5	-38:38:23	210097	0:2	-3:7	B8	8.20	7.87	133	58	33	2814	370	6.73
1394	10.0C	933	516	18:21:5	-38:38:23	210097	-0:5	2:12	B8	8.20	7.87	167	130	66	7188	450	6.52
1395	30.0C	938	507	18:21:5	-38:38:23	210097	-0:16	0:35	A3	7.84	7.71	305	17	265	486 M	610	7.13
1396	3.0L	865	497	18:21:6	-37:15:15	210098	-0:21	1:15	A3	7.84	7.71	46	6	21	132	190	7.46
1397	3.0C	860	489	18:21:6	-37:15:15	210098	-0:20	0:33	A3	7.84	7.71	100	32	35	1224 M	175	7.55
1398	10.0C	868	486	18:21:6	-37:15:15	210098	-0:13	2:38	A3	7.84	7.71	144	80	73	3453 M	170	7.58
1399	30.0C	872	480	18:21:6	-37:15:15	210098	-0:7	1:46	A0	8.03	7.61	87	8		174 L	18	10.03
1400	30.0C	575	373	18:21:10	-30:42:59	210101											

SAGITTARIUS WEST, R.A. 18:34 DEC. -30:24 (6 FRAMES)

OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAO NO.	Δ R.A.	Δ DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	BG	DENSITY VOLUME	CORR. V/E	UV MAG.
1401	3.0L	685	437	18:21:11	-33:18:31	210102	0:17	-3:29	A0	8.46	8.10	309	4	286	857L	190	8.41
1402	10.0C	686	422	18:21:11	-33:18:31	210102	-0:1	0:1	A0	8.46	8.10	34	4	32	85 L	46	9.00
1403	1.0L	405	335	18:21:13	-27:1:53	NO						159	28	85	1249	1600	6.08
1404	3.0L	389	333	18:21:18	-26:42:9							334	41	292	1211?	1400	6.23

END

DATE  
FILMED

8

DTIC

AD-A115 772

NAVAL RESEARCH LAB WASHINGTON DC  
S201 CATALOG OF FAR-ULTRAVIOLET OBJECTS. REVISED.(U)  
MAY 82 T PAGE, G R CARRUTHERS, H M HECKATHORN  
NRL-8487

F/G 3/2

UNCLASSIFIED

NL

AD-A115 772



END  
DATE  
FILMED  
11-82  
DTIC

**SUPPLEMENTARY**

**INFORMATION**

AD-A115772

July 1982

To: Distribution List of NRL Report 8487, "Revised S201 Catalog of Far-Ultraviolet Objects"

Subject: Erratum Notice to be Placed in the Rear-Cover Pocket

In printing the Catalog listing (pages 95 through 224), the last three pages for Sagittarius East (object numbers 951 through 1080) were inadvertently omitted. The missing pages are attached: it is suggested that this notice and the three pages may be conveniently stored in the rear-cover pocket provided for the transparent overlays.

Also, in our convention of listing objects in order of right ascension in each field observed by the S201 camera, Sagittarius West should appear before Sagittarius East.

## SAGITTARIUS EAST, R.A. 18:34 DEC. -30.24 (6 FRAMES)

OBJECT NO.	EXP. A FILTER	X	Y	R.A.	DEC.	S.A.O. NO.	A. R.A.	A. DEC.	SPEC. TYPE	V. MAG.	P. MAG.	PEAK DEN.	NO. OF POINTS	B.O.	DENSITY VOLUME	CORR. V/E	UV MAG.
951	30.0C	130	734	18: 4:13	-24:12:36	187806	-0: 1	3: 3	A2	9.50	.00	.85	21	80	471	28	9.54
952	3.0L	540	868	18: 4:26	-33: 8:46	2100887	0:28	-2:10	A0	9.61	9.26	315	7	285	188	340	7.77
953	10.0C	655	953	18: 4:48	-35:36:50	2100887	-0:12	-1:55	A0	9.61	9.26	315	7	285	188	340	8.76
954	30.0C	662	860	18: 4:48	-35:36:50	2100887	-0:12	-1:55	A0	9.61	9.26	315	7	285	188	340	9.18
955	3.0L	529	871	18: 5: 0	-32:57:18	187717	0:16	3:13	A0	9.00	.00	232	12	287	775	820	7.12
956	3.0L	187	783	18: 5: 1	-25:41:19	187717	0:16	3:13	A0	9.00	.00	232	12	287	775	820	8.56
957	3.0L	456	855	18: 5: 2	-31:25:40	210870/	0:17	4: 9	A0	.00	.00	47	4	22	322	480	7.39
958	3.0C	450	848	18: 5: 2	-31:25:40	210870/	0:17	4: 9	A0	.00	.00	47	4	22	322	480	7.58
959	10.0C	459	845	18: 5: 2	-31:25:40	210870/	0:18	4: 8	A0	.00	.00	157	65	78	1498	200	7.48
960	30.0C	485	834	18: 5: 2	-31:25:40	210870/	0:18	4: 8	A0	.00	.00	157	65	78	1498	200	7.37
961	1.0L	140	769	18: 5:10	-24:44:13	187718/	0:14	5:20	89	8.24	.00	84	17	57	406	1564	6.11
962	3.0L	130	770	18: 5:10	-24:44:13	187718/	0:11	6: 2	88	8.24	.00	81	75	260	4350	4500	4.95
963	3.0C	135	783	18: 5:10	-24:44:13	187718/	0:12	5: 8	88	8.24	.00	81	75	260	4350	4500	6.18
964	10.0C	144	781	18: 5:10	-24:44:13	187718/	0:15	4:48	88	8.24	.00	184	94	31	1282	680	6.02
965	30.0C	149	793	18: 5:10	-24:44:13	187718/	0: 9	4:58	88	8.24	.00	286	203	62	18678	1400	5.28
966	3.0L	456	855	18: 5:24	-31:23:44	210877/	-0:11	0: 1	88	8.73	8.30	322	12	287	322	1000*	8.59
967	3.0L	458	862	18: 5:24	-31:23:44	210877/	-0:11	0: 1	88	8.73	8.30	322	12	287	322	1000*	8.59
968	3.0C	450	848	18: 5:24	-31:23:44	210877/	-0: 5	2:12	88	8.73	8.30	47	4	22	371	170	7.58
969	10.0C	458	845	18: 5:24	-31:23:44	210877/	-0: 7	1:12	88	8.73	8.30	122	35	42	1498	200	7.48
970	30.0C	485	834	18: 5:24	-31:23:44	210877/	-0:12	2:11	88	8.73	8.30	122	35	42	1498	200	7.37
971	3.0L	333	824	18: 5:36	-28:36:28	187728/	-0:27	-1:42	A0	.00	.00	285	7	2717	1467	1899	7.94
972	1.0L	158	781	18: 5:43	-25: 9:35	187728/	0:16	5:36	88	8.76	.00	91	23	59	578	1699	6.02
973	3.0C	154	774	18: 5:43	-25: 9:35	187728/	0:12	5: 7	88	8.76	.00	82	38	20	5275	6000	4.84
974	3.0C	154	774	18: 5:43	-25: 9:35	187728/	0:12	5: 7	88	8.76	.00	82	38	20	5275	6000	4.84
975	10.0C	162	772	18: 5:43	-25: 9:35	187728/	0:12	5:16	88	8.76	.00	186	97	31	1424	730	5.98
976	30.0C	167	765	18: 5:43	-25: 9:35	187728/	0:12	5:11	88	8.76	.00	186	97	31	1424	730	5.98
977	3.0L	422	861	18: 5:58	-30:42:23	210887/	0:32	-2:43	A0	7.88	.00	382	9	274	19325	980	5.87
978	10.0C	425	843	18: 5:58	-30:42:23	210887/	-0: 8	2: 9	A0	7.88	.00	382	9	274	19325	980	7.85
979	30.0C	430	835	18: 5:58	-30:42:23	210887/	-0:10	2: 9	A0	7.88	.00	382	9	274	19325	980	8.48
980	3.0L	675	929	18: 6:15	-36:14:45	2109067	0:53	-1:24	88	8.58	.00	120	47	77	1447	1700	8.63
981	3.0C	672	920	18: 6:15	-36:14:45	2109067	0:30	-3:38	88	8.58	.00	72	28	23	1519	1700	8.62
982	10.0C	681	917	18: 6:15	-36:14:45	2109067	0:31	-3:24	88	8.58	.00	72	28	23	1519	1700	6.26
983	30.0C	685	909	18: 6:15	-36:14:45	2109067	0:30	-2:30	88	8.58	.00	287	178	77	16780	1300	5.88
984	3.0L	604	907	18: 6:21	-34:45:49	2109087	0:13	3: 9	A0	8.21	7.89	314	17	286	420	600	7.15
985	10.0C	611	898	18: 6:21	-34:45:49	2109087	0:13	3: 9	A0	8.21	7.89	314	17	286	420	600	7.15
986	30.0C	615	891	18: 6:21	-34:45:49	2109087	0:12	-1:11	A0	8.21	7.89	314	17	286	420	600	8.68
987	3.0L	478	874	18: 6:29	-32: 0: 8	211001	-0:12	3:18	85	8.52	8.81	382	40	77	1093	50	8.81
988	3.0C	475	866	18: 6:29	-32: 0: 8	211001	-0:12	3:18	85	8.52	8.81	382	40	77	1093	50	8.81
989	10.0C	483	854	18: 6:29	-32: 0: 8	211001	-0:11	2: 3	85	8.52	8.81	146	41	42	283	280	7.11
990	30.0C	488	854	18: 6:29	-32: 0: 8	211001	-0:11	2: 3	85	8.52	8.81	146	41	42	283	280	7.04
991	3.0L	498	866	18: 6:33	-26:37:24	2110047	0:21	-7: 2	A5	8.84	8.84	312	5	2867	1187	240	8.15
992	3.0L	227	812	18: 6:43	-26:37:24	2110047	-0: 1	1:41	A0	8.90	.00	261	6	2347	1407	258	8.11
993	3.0L	220	804	18: 6:48	-26:26:25	1877587	-0:34	4:34	A0	8.00	.00	253	5	230	101	200	8.35
994	3.0L	419	878	18: 7:41	-30:45:15	2110118	0: 6	-1:39	A5	10.10	9.76	308	5	280	120	250	8.11
995	3.0L	192	815	18: 7:52	-25:58:38	187776	0: 2	4:25	88	8.50	.00	252	23	225	614	640	7.08
996	10.0C	195	808	18: 7:52	-25:58:38	187776	0:13	5:12	88	8.50	.00	159	85	32	484	157	8.18
997	30.0C	198	800	18: 7:52	-25:58:38	187776	0:13	5:12	88	8.50	.00	159	85	32	484	157	7.78
998	1.0L	361	862	18: 8: 8	-28:35: 7	187788	-0: 6	3: 5	88	8.25	.00	138	68	68	1487	1198	5.88
999	3.0L	361	863	18: 8: 8	-28:35: 7	187788	-0: 5	1:44	88	8.25	.00	138	68	68	1487	1198	3.93
1000	.5C	365	856	18: 8: 8	-28:35: 7	187788	0: 0	1:35	88	8.25	.00	58	9	27	224	1400	5.28



## SAGITTARIUS EAST, R.A. 18:34 DEC. -30:24 (6 FRAMES)

OBJECT NO.	EXP. FILTER	X	Y	R.A.	DEC.	SAD NO.	A R.A.	A DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	BO	DENSITY VOLUME	CORR. V/E	UV MAG.
1001	3.0C	357	856	19: 0: 0	-29:35: 7	187788	-0: 9	2:23	89	8.25	.00	178	54	23	3303 M	1400	5.28
1002	10.0C	365	853	19: 0: 0	-29:35: 7	187788	-0:10	2:41	89	8.25	.00	388	108	42	13014 M	2300	4.74
1003	30.0C	370	846	19: 0: 0	-29:35: 7	187788	-0: 5	3:23	89	8.25	.00	378	237	80	28110	2500	4.64
1004	3.0L	419	876	19: 0:10	-30:43: 3	2110267	-0:20	3:51	A3	9.71	9.53	308	5	280	120 M	250	8.11
1005	1.0L	232	834	19: 0:24	-28:50:18	NO*	0:16	0:40				116	23	70	784	1190	6.40
1006	3.0L	234	830	19: 0:24	-28:50:18	NO*	-0:17	0:40				267	8	242	138	327	7.81
1007	3.0L	248	832	19: 0:25	-27: 9:36	1877827	-0:31	1:25	A5	8.50	.00	281	7	234	181		
1008	3.0L	242	838	19: 0:25	-27: 9:36	1877827	0:10	8:48	A0	8.60	.00	272	9	2477	1817	615*	7.12
1009	1.0L	269	848	19: 0:32	-27:38:57	NO	0: 4	1:11				94	3	70	66	325	7.82
1010	3.0L	273	846	19: 0:32	-27:38:57	NO	-0:20	3:28				293	6	265	156	475*	7.41
1011	3.0L	287	851	19: 0:32	-27:38:57	NO	0:15	2:18				287	4	265	88		
1012	10.0C	682	844	19: 0:58	-36: 1:33	2110387	0:47	3:20	85	10.20	9.62	89	41	47	1246 M	175	7.55
1013	30.0C	687	835	19: 0:58	-36: 1:33	2110387	0:39	3:24	85	10.20	9.62	138	100	78	3849 M	200	7.40
1014	3.0L	954	921	19: 0: 0	-33:48:57	2110437	0:24	7:28	A2	8.95	8.87	317	10	289	233	410	7.57
1015	3.0L	660	954	19: 0:18	-36:14:36	2110437	0:30	8:43	A2	8.95	8.87	325	6	300	120	260	8.06
1016	10.0C	682	844	19: 0:18	-36:14:36	2110437	0:26	8:45	A0	7.86	.00	123	36	73	1246 M	175	7.55
1017	1.0L	558	930	19: 0:26	-33:56:13	2110457	0:26	1:49	A0	7.86	.00	419	88	303	1182 M	3039	5.38
1018	3.0L	558	930	19: 0:26	-33:56:13	2110457	0:32	1:11	A0	7.86	.00	54	4	30	90	945	5.71
1019	5C	563	924	19: 0:26	-33:56:13	2110457	0:21	0:15	A0	7.86	.00	135	53	22	2817 M	1240	5.41
1020	3.0C	554	923	19: 0:26	-33:56:13	2110457	0:26	0:57	A0	7.86	.00	388	113	49	13173 M	2400	4.69
1021	10.0C	563	920	19: 0:26	-33:56:13	2110457	0:13	0:31	A0	7.86	.00	375	214	82	26118 M	2400	4.69
1022	30.0C	568	911	19: 0:26	-33:56:13	2110457	0:13	0:31	A0	7.86	.00	123	36	73	1162 M	3039	5.38
1023	1.0L	559	930	19: 0:27	-33:55:51	2110467	0:26	0:24	A0	7.30	.00	419	88	303	5540 M	7300	4.43
1024	3.0L	558	930	19: 0:27	-33:55:51	2110467	0:32	1:13	A0	7.30	.00	54	4	30	90	945	5.71
1025	5C	563	924	19: 0:27	-33:55:51	2110467	0:20	-0: 8	A0	7.30	.00	135	53	22	2817 M	1240	5.41
1026	3.0C	554	923	19: 0:27	-33:55:51	2110467	0:25	-1:18	A0	7.30	.00	388	113	49	13173 M	2400	4.69
1027	10.0C	563	920	19: 0:27	-33:55:51	2110467	0:13	0:10	A0	7.30	.00	375	214	82	26118 M	2400	4.69
1028	30.0C	568	911	19: 0:27	-33:55:51	2110467	0:13	0:10	A0	7.30	.00	123	36	73	1162 M	3039	5.38
1029	3.0L	359	886	19: 0:57	-29:43:22	187830	0: 7	3:59	89	8.10	.00	307	24	272	469	650	7.06
1030	10.0C	365	874	19: 0:57	-29:43:22	187830	-0: 5	2:13	89	8.10	.00	90	27	43	836	130	7.87
1031	30.0C	371	885	19: 0:57	-29:43:22	187830	-0:17	2:35	89	8.10	.00	143	78	81	3180	155	7.68
1032	3.0L	422	906	19:10: 1	-31: 0:46	2110547	0:29	2:18	A0	9.07	8.71	310	4	2857	897	200	8.35
1033	3.0L	431	881	19:10: 1	-31: 0:46	2110547	0:13	2:15	A0	9.07	8.71	110	29	80	681 L	34	9.33
1034	3.0L	422	906	19:10: 2	-31: 0:38	2110577	0:28	2:35	A0	8.80	9.01	310	4	2857	897L	200	8.35
1035	30.0C	431	881	19:10: 2	-31: 0:38	2110577	-0:14	2: 7	A0	8.80	9.01	110	29	80	681 L	34	9.33
1036	3.0L	255	856	19:10: 4	-27:27: 0	1878407	0:18	5:28	A5	9.20	.00	288	4	264	161	190	8.41
1037	3.0L	274	859	19:10:13	-27:58:21	1878411	0:20	0:59	A0	9.10	.00	100	4	65	1267L	15	10.23
1038	30.0C	176	823	19:10:18	-25:37:10	2110667	-0:25	8: 8	A0	8.38	8.87	308	5	2827	1167	240	8.15
1039	3.0L	456	910	19:10:32	-31:50:31	2110687	-0:15	3:48	A0	10.00	9.51	310	4	267	897	200	8.35
1040	3.0L	422	906	19:10:45	-30:58:15	1878817	-0:25	3: 6	A0	8.50	.00	284	8	260	176		
1041	3.0L	251	888	19:11:22	-27:27:58	1878817	0: 6	5:14	A0	8.50	.00	291	6	260	150		
1042	3.0L	247	873	19:11:22	-27:27:58	1878817	0:24	0:23	A0	8.50	.00	292	16	260	384	1170*	6.42
1043	3.0L	250	877	19:11:22	-27:27:58	1878817	0: 6	4: 3	A0	8.50	.00	59	10	36	213	65	8.63
1044	10.0C	252	883	19:11:22	-27:27:58	1878817	0: 1	5:31	A0	8.50	.00	113	55	80	1476	67	8.58
1045	30.0C	257	855	19:11:22	-27:27:58	1878817	-0: 1	5: 8	88	9.20	.00	307	8	276	210	360	7.71
1046	3.0L	313	889	19:11:27	-26:51:58	1878844	0: 0	1: 0	88	9.20	.00	75	15	40	396 L	83	8.36
1047	10.0C	320	881	19:11:27	-26:51:58	1878844	0:16	2:53	88	9.20	.00	124	60	82	1782	95	8.21
1048	30.0C	325	871	19:11:27	-26:51:58	1878844	0:12	0:47	A0	8.94	8.47	66	4	42	62 L	45	9.03
1049	10.0C	427	910	19:11:36	-31:10:17	211085	0: 8	2: 1	A0	8.94	8.47	109	29	82	666 L	33	9.37
1050	30.0C	432	902	19:11:36	-31:10:17	211085	0: 8	2: 1	A0	8.94	8.47	109	29	82	666 L	33	9.37

## SAGITTARIUS EAST, R.A. 18:34 DEC. -30:24 (6 FRAMES)

OBJECT NO.	EXP. & FILTER	X	Y	R.A.	DEC.	SAD NO.	A R.A.	A DEC.	SPEC. TYPE	V MAG.	P MAG.	PEAK DEN.	NO. OF POINTS	BO	DENSITY VOLUME	CORR. V/E	UV MAG.
1051	1.0L	536	960	19:12:30	-33:37:7	211100/	0:27	-1:38	A0	7.38	.00	105	29	74	738 M	1729	6.00
1052	3.0L	535	962	19:12:30	-33:37:7	211100/	0:32	-1:5	A0	7.38	.00	402	75	302	4730 M	5600	4.71
1053	3.0C	532	953	19:12:30	-33:37:7	211100/	0:21	-2:7	A0	7.38	.00	89	49	22	1842 M	900	5.76
1054	10.0C	541	950	19:12:30	-33:40:7	211100/	0:26	-3:16	A0	7.38	.00	338	116	49	11211 M	2000	4.89
1055	30.0C	545	943	19:12:30	-33:37:7	211100/	0:27	-1:10	A0	7.38	.00	347	238	82	26046 M	2300	4.74
1056	3.0L	267	889	19:12:32	-27:56:40	187884	-0:10	4:4	A0	9.00	.00	298	12	270	288	440	7.49
1057	30.0C	277	876	19:12:32	-27:56:40	187884	0:13	2:32	A0	9.00	.00	104	10	78	228 L	20	9.91
1058	1.0L	536	960	19:12:33	-33:40:7	211101/	0:24	1:22	B8	8.03	.00	105	29	74	738 M	1729	6.00
1059	3.0L	535	962	19:12:33	-33:40:7	211101/	0:29	1:55	B8	8.03	.00	402	75	302	4730 M	5600	4.71
1060	3.0C	532	953	19:12:33	-33:40:7	211101/	0:18	0:53	B8	8.03	.00	89	49	22	1842 M	900	5.76
1061	10.0C	541	950	19:12:33	-33:40:7	211101/	0:23	-0:18	B8	8.03	.00	338	116	49	11211 M	2000	4.89
1062	30.0C	545	943	19:12:33	-33:40:7	211101/	0:24	1:50	B8	8.03	.00	347	238	82	26046 M	2300	4.74
1063	3.0L	597	972	19:12:38	-34:56:49	NO	0:8	-1:9				343	38	297	1216	1400	6.23
1064	3.0C	592	963	19:12:38	-34:56:49	NO	0:0	0:12				53	17	23	421	300	6.96
1065	10.0C	601	960	19:12:38	-34:56:49	NO	0:0	-0:41				163	76	497	4119	680	5.06
1066	30.0C	605	952	19:12:38	-34:56:49	NO	-0:6	1:40				233	164	82	10400	830	5.85
1067	3.0L	277	886	19:12:55	-28:2:12	187881	-0:7	-4:34	A2	9.20	.00	301	14	2757	3437M	510	7.33
1068	10.0C	580	967	19:13:0	-34:32:5	2111107	0:46	-1:48	A0	8.96	.56	78	17	497	420	81	8.39
1069	30.0C	586	957	19:13:0	-34:32:5	2111107	0:27	-1:21	A0	8.96	.56	126	62	85	1855	90	8.27
1070	3.0L	510	961	19:13:9	-33:9:11	2111113	0:14	0:42	A0	8.96	.55	319	10	2927	2347	410	7.57
1071	3.0L	484	961	19:14:17	-32:35:21	2111327	-0:25	-1:14	A0	8.94	.63	318	13	2847	3567	530	7.29
1072	3.0L	299	910	19:14:19	-28:33:59	1878227	-0:7	-7:59	A5	8.90	.00	303	7	2747	1697M	320	7.84
1073	1.0L	509	983	19:15:6	-33:14:38	211148	0:24	-0:42	B8	7.52	.00	100	18	72	418	1374E	6.25
1074	3.0L	509	983	19:15:6	-33:14:38	211148	0:16	-0:47	B8	7.52	.00	398	92	290	4770 M	6800E	4.50
1075	3.0C	505	976	19:15:6	-33:14:38	211148	0:19	-1:10	B8	7.52	.00	90	44	25	1680	820	5.86
1076	10.0C	514	973	19:15:6	-33:14:38	2111487	0:25	1:3	B8	7.52	.00	308	120	46	10440 M	1380E	5.29
1077	30.0C	518	968	19:15:21	-30:55:11	211148	0:25	1:2	B8	7.52	.00	362	214	88	24684 M	2350	4.71
1078	3.0L	402	950	19:15:21	-30:55:11	2111557	-0:29	-0:40	A0	9.20	.81	305	4	2827	877		
1079	3.0L	396	957	19:15:21	-30:55:11	211155	-0:18	3:28	A0	9.20	.81	317	61	285	1552 M	1900*	5.89
1080	3.0L	459	979	19:16:56	-32:21:4	2111627	-0:30	5:14	A0	9.74	.43	321	14	2777	3937M	550	7.25